

tcantatccg tcgaggatag cgactcgtag aactcagctg cgcactctta tatcgcacca 360  
tcganaaaca cacatagcgc gactattcac tggcgtgaca cgatcatctg tgtcatctca 420  
tantacacat gtcgatggca cntcgcgcgc tatctgtgaa ctacngatc actcgtgtat 480  
gtntgtggac ntatgtcaca cacaatcgcg cgtgctatca cgttcgatgt cacgccatca 540  
tggtgagcgc tactacatga gtactgtgcg cgtgccacgc ggatatccac ctctgcgacg 600  
atagggcgac gcacttcccg aacgacgatg ggtcgaggcg cctcaggnat acgtctgtct 660  
gggaccatca cacatttgtc ggaacgaacc tatectattc gaattcgcac ctagggtgta 720  
agaagaatag taatctgttg tataggctctt gaaatgcacg actgacacgc gaacatactc 780  
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c 841

<210> 12382  
<211> 443  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12382

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acacgaatat tctccctagg ctcgatgata agaaccgtac ctttagactg tgttactccg 180  
cccactatct ctatctctca acttctagaa tctcgnacac ggtagagtat ttgcatgcta 240  
cgaactttgt gattagagat agaataatta aacgactttt ggatagaatg ggcacacagg 300  
tccctatctt tcgactggct tttaccgtct atctttatct gcaaattgtct catgagtgca 360  
caaggacgtg tacacgggtga ccttctttct gaatatgacc caaatgaggg atctatatta 420  
acaatctgtt aatagccttg ccn 443

<210> 12383  
<211> 579  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12383

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catagaatac taagcctcta tataagctga accaatttat caataaacac atgttggtgtt 180  
atattcacia aattaaaggt tatctctttc ttcttagtga gagagaatct cctaaaatct 240  
tgagtaattc aagaacaccc tggtgtatc aaaggacttt cacaaccttt gtgtggtgcc 300  
cttggcagaa agagtgaagc ttctctttct ttcatcttca accttggtct tgtaaaccac 360  
aactcccgaa aatctacttt tgcccaaaat tattttgggg gcataactcc attttacccc 420  
tcaaattaag gatttggtgc ctaatggaat ttcaaacaaa cttttccctt gtttgaatc 480  
cccttattaa ccatgagctt gattatttcc atttattttt ggccgccccca cttacctatg 540  
tttacatcct taatcattat gcaaaccact tttaaaccg 579

<210> 12384  
<211> 397  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12384

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ttttttctag tgctcaatgc aactcctaaa ttataaactc attcaagtta aatgttattg 180  
gttgtgagca atgctgtcaa atggtggcac catggccaaa tgggtgtggag gcttctttgc 240  
taccacacct ccaaaggaag attgtgaatg gaagcctgct atggcggcac catatgcaac 300  
aatggcatgt ntatatggca aaatttctgc cttctgccat ctgccattga taacattggt 360  
gttgagatac atacaacaga agctcctatg ttatatt 397

<210> 12385  
<211> 538  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12385

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gcttgcttgt gtggcttcta tggaggcttg atctttgagc tgcctgaggc cctggttatgg 120  
cgagtatgca ccatggatat gcatcggaag acctacgata atacgagaga ggacgcgccc 180  
tccactttgc aataagccat ggaagaagaa tctccaccac cacgatgagc cttggataac 240  
tagcttggat aggaggcttc gatgtaggaa tacacagaag gagagatgga gagagggtgtg 300  
agcacgacat tgatggatga tatagggagc gaagacgaac tttgagttgt gtctctgaag 360  
actctcattc atcaaacgta cagcatgttg tacacgtgct tctatztatg gactaggtat 420  
gctacttgag aggctttctt aagaagactt ccttgacaag ctgtgttgag acaactgtct 480  
ctcgaagata gatcttagct actcacacgc gtctatactg acgtcacctc cttgagat 538

<210> 12386  
<211> 527  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12386

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gtactcacgc ctccgatgat gaatcaaggc gcttcttggt tntctgatgg ttgcacagat 120  
gatgactgag agcctcagag aatgagtttc agattgagtc agcgcgttca ggatcaagtt 180  
atatttcgtg tttcttgacg agaaatcatg aatatgtaag aatcgggaga agtttgctgt 240  
caagattctc gagaagatga gtttcagatt cttgagaaga gatcgagaag acttcacaat 300  
ggaagtattc gatataatctt tccaagaaca aacgtagcat agctttgtct ctcataagag 360  
tattgctcaa gatctctcta gttaccagag tatgttctct ctagtaatcc gctacagttt 420  
cccattatcg ataccgcggg ccatgttagt tgcggcgctt ttctgaatt gcgcgtccat 480  
ttgttttaaa ggtgtgggat acatatatgt gacgatacta aagaccn 527

<210> 12387  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12387

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aggtatgcct atgttggtgt ggatgatttc tccagattta cctgngtcaa ctntatcaga 120  
gagaaatcag aaacctttga agtattcaaa gagttgagtc taagacttca aagagaaaag 180  
gatttgtgtca tcaagagaat caggagtgac catggcagag aatttgaaaa cagcagggttc 240  
actgaattct gcacatctga aggcatcact catgagttct ctgcagccat tacaccacaa 300  
cagaatggca tagttgaaag gaaaaacagg actc 334

<210> 12388  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 12388

ggatatccat ctaaatccag agcatgcacc aaaatcatat tcaaacgcat atccggcaca 60  
tggtgcatgc ccttcaatct tagtgtgcca ccattattgg tttgaatgca cacatcacca 120  
atcccaacaa tgtttgtaat gctactattg accatgttca cttttccaaa gtctcctgct 180  
ttatacgtag taaagaattc cttggttgaa gtggcatgat aagatgatgt tgagtcaatg 240  
acccattcaa cacatgaata tgaaacacgg cactattcat cttccacaga gatcctgtgg 300  
gtacaagtgt gaagtg 316

<210> 12389  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12389

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aggtcaaagt tgagtatgtg aaaagattgt atgaccaagt gaaggtgcaa attgcaaaga 120  
agaatgaaag ttatactaag ccagcccaca agaaaaggaa ggaagtggta cttgaacccg 180  
gtgatgatcc tggacatttg angacaaatg ttttccaaga aggaggggaat gatgagaatc 240  
atgaaacaag cgcaatacag tctaaaggcc caagtggaga aagacaaaac ccccgagtgg 300  
agaaagatga aggcccaagt ggagaaggat gaaggccana ngcagagaca ctatcaagac 360  
tataattngt gctgaaggcc aaactaattt gaggcccaag taaataagtt tantataatt 420  
attttattta tagatttgat acanatagat tgattgatng atacaac 467

<210> 12390  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12390

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cttgcgggac caagcgtggt attctgtgaa gatgaacatt catectcttg ctgaactacc 120
tgtgggctaaa cgacgctgga ttggctagcc caggtgactt aaacatttta tttatgtgat 180
agtccggcgc tcaactgaac attcttgagc caagcacaat tggttgcggc atacgctgag 240
cttaactcca taacttaatg aaatntttgc tgagtttaaat ggccgttagc gcaacttatt 300
cttggggttag cttcaattca tgccggttac cttaacacta tgcttattag gaacctatga 360
agagaaccat gctttctcta cttgttttac acagatntct tttgatgatt tctttctttg 420
ttctagatag ggaatacatg ttataaccac agtatatttc atccagatgc gatttatcta 480
atagctgcag atacacaagt g 501

```

<210> 12391  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12391

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actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180
cacactatgc ctaactaatc tatgaaaggt tctatctatt tcaggatcaa aggggttgtaa 240
gtcacgtgga ttgcccctag tcatgcacta tatgcagcag ataatgtggt ctcaaacaag 300
cacctgacaa ggtggtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360
ctgtcagcaa cacccttaaa tcatgaaaag atagcacaaa aaatttcata caataattca 420
aagtctaact atgaggacta cctaagcata ggtagaaca atacgacaat aatacttgaa 480
aaa 483

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<210> 12392  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12392

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 cgacatgact aatatttcta tattattgat gggcatatca tctttgcgat gcactcttgc 120  
 atgtgatgta ngaccgttca tctactttg tgcgctgctt aaatctgtct tccctattct 180  
 ttaactaagg atcctaccgt attcaccaat cctcaggatt gtcaacactc ataacgtaat 240  
 ttattcgacg attacactga caactattgg cccatgtttg ccacactatc ggctgcatac 300  
 agtgccactc tagccgtgaa ctgcacactg agatgctncc gcctcagacg ccatcggata 360  
 ttatgaatga gaataagctc ctgacactcc tagtaaaggg ggacttgcca agacacgggtg 420  
 ctctgtctgt tccacgaggg gcaccggcat tctagacttg ccttgcgatg gcttgtgacg 480  
 gcttaccatt gccgacttaa tcgtccgaag aaaagccgac ttctctcg 528

<210> 12393  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12393

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 agccatgttc tcagcatgaa aattaacagc cgaatgctca aaatcagaat attcagaatc 120  
 actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180  
 cacactatgc ctaactaatc tatgaaaggt tctatctatt tcaggatcaa aggggtgtga 240  
 gtcacgtgga ttgcccttag tcatgcacta tatgcagcaa ataatgtgtt ctcaaacaag 300  
 cacctgacaa ggnggtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360  
 ntgtcagcaa caccctataa tcatgaaaag atagcacana annattcana caaaaattca 420  
 nagtctaact atg 433

<210> 12394  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<400> 12394

agccatgttc tcagcatgaa aattaacagc cgaatgctca gcatcagaat attcagaatc 60  
 actatcaaca taatactcac aatgctcaaa atgctcaaaa tgcctataat gatcacgatg 120  
 cacactatgc ctaactaatc tatgaaaggc tctatctatt tcaggatcaa aaggttgtaa 180  
 gtcacgtgga ttgccctag tcatgcacta tatgca 216

<210> 12395  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 12395

tgctctattc aatgggagtg acaagaatat cttcagactg atcaacacat gcacagtggc 60  
 cacagatgcc tgggagatcc tgaaaaccac tcatgaaaga acctccaaag tgaagatgtc 120  
 cagatggcaa ctattgggca caaacatcga aaatcttaag atgaaggagg aagagtgtat 180  
 tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactggc tgggagaaag 240  
 aatgacagat gaaaagctgg tgagaaagat cctcagatct ttgcctaaga gatctgacat 300  
 gaaagtcact gcaatagatg aggcccatga catttgccac atga 344

<210> 12396  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 12396

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 aggaattatt cgtgacctga gacctgcac acaaataggg aacagacttc tccttaa 117

<210> 12397  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12397

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acatatattc tgtacgacaa caccatgtga catattgtat gaccttatgc tccataggac 120  
ctctgactct tatcttatac actaattggt gaagtaccca acagttn gat acatatcctt 180  
tcactatat atattgatgg ctgccagaac ttacgaccga atcgtgcatg tcttgagata 240  
tgtgatattc atacactgtc atgttatatt cgcttagttt tcttattatc tgtcttggtt 300  
cagtgtgca agtcattc 318

<210> 12398

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12398

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aaatgaccat atttcgctca cttcttcttc attgtctgga tcgacaacag gaaaatagtc 180  
agtgaaccag gccgggccga cctctcgact aatgaatgga gcatgttggg gaagaaactt 240  
gtcaaagctc agaaaaatct tcatgtactt gagggaaaagc ttttgtggat attgatcgaa 300  
agtcttgggt gttaatcgaa gtgctctctg gccttcgac gagcgatngg caacttcttc 360  
agcataatct tgcgtgatta ttaatcccat tctctgttcg aaagtgccgt taagccacaa 420  
ctggag 426

<210> 12399

<211> 264

<212> DNA

<213> Glycine max

<400> 12399

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ttcgttaacc attggatcga cttggaaatt ttactggagg ttcccagtac ataaatctaa 180  
atcttgaccg gtgggatcta ctagaaaatg cctggaaccc gatatgtact actcttccca 240

tgactagcaa tgcacaagca tttt

264

<210> 12400  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12400

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acatatgttg atattggaac tgggtgttttg ctgaagaatt tgtagtacga agaaatttgt 120  
tgctactgtc agttacccat ttttaattaaa tataatttgt tgctgaaatt tgcgatttaa 180  
tcaattcacc taaaccagn tcaattaaat ataattttta tttattaaat aaaatttggt 240  
ggtgtatagc caattgaatt aaatataatt ttattgggtat ttatt 285

<210> 12401  
<211> 565  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12401

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tccgactgca ccatacatat tgccctgaga agaaataaac atggcgcgag attgagccac 180  
tggagtatgc tattcagccc tgatggagct gaaccgaacc ttttctacta tcagaaggta 240  
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cgactagcac aaaagaaggt gatgctttcc acgctggaac atctggtaat gagggttcac 360  
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agacgtttcc aaagaaccac cccttgatg ctcaattggg gatgttgggc catctcatga 480  
ttgaggttac agtgcctgga ttctctaat ttaaaaaaat ggatttctcc ggggttagaag 540  
caacttttcc tctctgacca ctccg 565

<210> 12402  
<211> 605

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12402

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 agcatgtgga cgctgactat tntagtctca cccgcttgct atctatagat ggcttggtcg 180  
 atgacatgcg gagataccca agggatatccg tacctttgtc aactataggc aagcgagcct 240  
 gttgatcgag actatttttaa tctcaccact tttgcacccc gacccatgag ttatgtggca 300  
 tgcggagata ttcaacgggtt attcgcacct tngtcaacta gaggcaagtg agcctcttga 360  
 cgagactatt ttagtgtcac acctttgtca tccagagacg gcaagtccga taacatgtca 420  
 agatacccaa ggggtttccg caccttttgt cagtttagagg caagcgagcc ttgacctgc 480  
 taagaccaat gtggtcatct gcacccttcc cgaagatgta ggcatcttcc ggccgagacc 540  
 cacaacaaga tcaatttcct tttgtgacct atggggccgg agcacacata cacacataat 600  
 ggttg 605

<210> 12403  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 12403

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 atgatcccca ttctctttgc taaccaattt cccaccatat atcatttaat gcaaatcctt 180  
 aatttttgta ttgcctcttg tgccttcatt gttggcatta tgctcaaatt ttcttttgct 240  
 cagagcccat ccatttcttt ttttctctca tctgaactac ttccatgcga cacgtgtatt 300  
 tacctttagt aagctctgta tattcatatt actttattat tgttgccaca tttcttgact 360  
 gcactgcaga tctacttttc ttgagccctt ataaattacc ctttccccca ttctttaatg 420  
 aatactatca cattcacatt cact 444

<210> 12404



<211> 281  
 <212> DNA  
 <213> Glycine max

<400> 12404

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 acgagcatat ctgagagacc ttagcccaga agcagacaat gcctgtgtgc aggcaagaga 180  
 gcaattatat tacacacatg atacttgctc tggattcaat tgccataaaa tattaaattc 240  
 aatcaatatt gaatggacga caatgatgat gacatgaaac a 281

<210> 12405  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12405

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 ggcattaaag atatgcaata aaatcataaa aaaacaataa aagacacatg acaaatatcc 180  
 caattcccgt gggatattggc ccgaacccat cctgactttt acgaggagtn gcctgtttgg 240  
 tcgagtatag gtatgggtat taccgaana atttaagcgt ggatggggat ggcgatggng 300  
 atgacgacgt gtatcaaatt atacttatag ccatacctgg ccaccattac atttttgtat 360  
 gaattttttg tcacaacata tattttacaga atatatcttg aatatttatt ggtatatttt 420  
 ttaataatta ataacacagt aaaagataat gaatcttatt ttatctt 467

<210> 12406  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 12406

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 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180





ttaaggatac aatgaaagaa taaaaatccc taattcctag ttatacacct ttccatattt 240  
ccctattttac atacaagaaa atcatatctt tacaataccc ctcaagttga agcatatatg 300  
tcatacgaac ccaacttggtc acgaatgtag tcaacatgag aacccttgag agatntagtg 360  
aacatgtcta ccacgtgggtc tttggagcta acaaagtcag tg 402

<210> 12412  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12412

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cttttaaatt gcaaaggcca gttgacaccc cagtcttaac caaccgtaca cagtcttttag 180  
gataaaattc accactgggtg aattcagtga gaggacatac tgtgatgtga ataattgggtt 240  
atttatattga ggaatttttt ttggcgagca tactacaaaa agtagtgatg gaaaacatac 300  
cgtactgata gacttagggg tccaatttga aaagtaacat tctatgtatc aaggaaaatg 360  
ctcacagatg ctgatatggc aaatggtttt aacagcacat tatgtgtgct atttgacagt 420  
gttttattat taaacttatg atgaccg 447

<210> 12413  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12413

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attcccaaaa ataaacacag gggttttcaa ccctttcagc tacattgccc ctaatgggct 180  
tcaaaactac ctaaaagtct aaaataccta acctgacaac aactaactac gaaaaccata 240  
aatgaactat cctaagggtt gaagcatgaa aagtaaaaat agaaatgtgc taacttactt 300  
ggat 304

<210> 12414  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 12414

tctcgtagta cccctccacg tcattcccaa acaccgacgc gagccccatc ccgtgataac 60  
 cacgtgcttc ttcgggtcct tctgccacta cggggcggac accttcggcg ccaactgtggc 120  
 ggacacgaag aacacgcgct tcgcaaagga ggcgcacgc ttggcggcgg cattgttggg 180  
 gccccgaaga ggggtccaagg gagaaccgcg gaggggtgatg atcatggaag gccaggttgt 240  
 tcgttagagc ctcgatggcg ccgccgcctc gcatggtggt tcccgcggtg gtttgggggt 300  
 tggagat 307

<210> 12415  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12415

atactctcta ctcccttggt tctactccgt tctatacttg atctcataca ccnnccggnn 60  
 gngttttgtg ccccggttggt ggagtgtaaa aaaacacagc tcgccgcggg gagactctag 120  
 agaccgcggg gcccctctct atactcttat agagagccgt taacataacc gggcggcggt 180  
 ttacacagcg tggattggga aaaccggtgt taccacatta atgcctggag aaaatccctt 240  
 ttccctgggg ataacaagaa ggcccacat tcccttccaa attggccacc tatgtgaatg 300  
 ggcctatgcg gttttttcct tcccactgtg gtgtttacac ccatatgggc ctctctaaca 360  
 actgtctgtg gccgtattta gccagccgag acccgcacac ccgtgagcga accattgggg 420  
 gggtttaata tttttttaat gtttttttga attcacacct tacctctgct ttcttgtgct 480  
 tcccgaaca actacg 496

<210> 12416  
 <211> 580  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12416

atgaacctga gacgtgnact nccccgcct tgtaactaac cctctccgg ttaaggcgct 60  
atccgcatac ttatgaatct cccttgctgt caaacagaac gacctccgt atgttaaaag 120  
attcctttca tatcgcggtg gagcaatttg ctcgagcact ttggttggcg gcagtgttat 180  
gtccatagtc gctaagacaa tgtgaggcga tagttgttat tccccgttgt gctcatagta 240  
ccacaatagg ctgtgagtgt cgtcctttta ctacacanct tatgctctta accactgtca 300  
agattataca gcgccccctc atacatgtac ccacacagat attgagtcac tatgtincta 360  
ccatattcta tagccaccac anaggtatga ctacagacatg gctacgcacatg gggaaanact 420  
tactacactc cttctgggtn gtaatacgtg acttgatgtg attgcgttaa gaatactcaa 480  
aatacgtatc taaatcgtgg ccaaaattgg gtctgggtga ggaaataaac gcaagatttg 540  
tgaatcctct cgtttagaat gtagggggcg gtgtgaccgc 580

<210> 12417

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12417

agagaggaag cttcatggag gaagagaatg agagagcggg gtgagcgtgt ggcctaccgc 60  
ttagtgggcg accatgtctt ggcttggtga tacacactct cgactctatt atgttcttcc 120  
accactatac ataatctctt gcatggatcc ctcccaccta tatgaacagt ggaatactcc 180  
atattctctg ggcctcgact ctacagatctt atcttcttcc cgctgttga cccaccatcg 240  
agtctctttg cacttttata caactcctat taaggcctta tggggaagca ttaaattcta 300  
tcaggctctc ttttttgc cactctaac tatttcttcc aacctacaga cctcctttaa 360  
atccccctc ttaaatactc taacaagaca acttctgtcc ttactatttc ttccaatctg 420  
ttggcacccc acttctcttt gtcttcn 447

<210> 12418

<211> 508

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12418

ntgaaacctg atacgtcgca ttcgtgacta tgaccctagc tggccgtgtg gactacataa 60  
tatggttttg cttgaagtgt caaatctgac attgatgtgt caagtctcgt aatattatca 120  
tagaacaacg aaaagatagt gtcattatta taaccgaagt catttacaca catgcataat 180  
acttaatcta gactcacacg atgttggaca aagtacataa atactctgtg tacatacaat 240  
atcttgacca tgtcataatg tgatatcaga ttaacattat tcaacgtaga gcagatgtgt 300  
aaaagaatta tcatgtctgt ttaactccac tacttggata gtaactataa tagatgaaat 360  
gtagctgtat tatcacatgg ataaacatgc atattaatga cttgaataag gataggctaa 420  
gatgangtgg acagagggtg aagggacagc ctagtttatg atagaatacg tatagataag 480  
aggatacggg ttgcgttgag tgactaag 508

<210> 12419

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12419

tggtacaact agtattcttt aatctaccaa atcactattg gttctaacac anataagaag 60  
atttattggt ttgattgcac aatgactaac actttatcag cttacagatg gataagtaat 120  
ttcaacactt agtcactttt ctcaagatga acaaagtatt ttgagagctt tgttaaactc 180  
tagaagaatt tccataaaga tgcctttacc caaagaatga aataatgagc gcttcaaactc 240  
gagcttcata ttttcaaactc tcttgggtata tataaacctt cttcaatcaa gtatatgttg 300  
gctctatacg gacatatttc ctctcttatg cttgagtctg aagaaaatgg cattggaggc 360  
attaatgcat gtacttttca tgctgagaaa cactcttctt gttggtgtgt tgacactcca 420  
caagaaacac ttctttttat 440

<210> 12420

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12420

tgagtcttag cataattgtc tcatgcgctn gctaattatt tattatgaaa ttgatgtggt 60  
 attatgtctt gatcagagca tgtgatttgt gtgtaatgtg attgatgatt gaaaagtgtg 120  
 attgatggat gaaaagtga ctttgaatga caaagtgatg gaattgcgtg aattacgtgt 180  
 aagtaaattt tatttggtt atatgatatg tataatctagt tgtcttggtt ctctattagt 240  
 taggaatgtg ataactcact ccccggtgtg tgtttgtatt tggatcctgt gatgatcttg 300  
 aactttgtgt tccgnggagc agacgactag gtgaattgat ttaaggaacc ttgtgctgaa 360  
 ggacgtcgag acacaacgct ctaatangat gtggcattgn ggtataggat tntatattaa 420  
 ttgtatgaag tcttagacgg gcttgttta accga 455

<210> 12421  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12421

tgttcccatc cagctgtcag attcttttcc accttgaac gttcctctta ctgctaagtg 60  
 gcaccaaattg tctgcctttg tgtaagctct ttntctttct ttctttcttt acactaatta 120  
 acaatcctct tgtatggatc ttacgtacct attaaacact ggatttccaa atattctatg 180  
 gcgccgtacg ttcagttttc tttcttcttc ctgcatgtta atcaccaatt gttgccactc 240  
 tgtcatctat atcagtcact aattaatgct gtaattgggtg aatctatata attagtcagg 300  
 ttatttattc gttggatcat taatcaaattg atttctgcat gtttaattagg atacttcttc 360  
 taacanacac ctttttatat atactcttga catgaagtca ctctgtgtcc ctattata 418

<210> 12422  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12422

tttggcttta cagctcactc cttgatacca ttgtattggg tgtatcttgg tngctgcac 60  
 ttattacatt tgatatctat tttgcattgt gcataatcat attgtgtgtg aagaaaactt 120  
 ttaaattaga caaatttctt agaggtaaaa ctttctgttt aattgatata cctcattgaa 180



tccatacaat aagtgtctga agtttgtaag ttaagtcttg atagggttaat cattataata 240  
tctctaataca ttcactgttg ttgaacaaga tgattagtat gagtcttctt aatcatacca 300  
aggaataacg atactctctt tattgatggt atggggacaa gatacttaat gatactagat 360  
atcaatcatt acttgtcttg attgttcta 389

<210> 12423  
<211> 389  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12423

aaggaatggt ttgagagatg tccttgcaag cacgccttct ttatgaattt aagagaaagt 60  
ggtaatatgt ncattgttat tctttacatt tatgatttga cttttactgg cattgattat 120  
aatatgttga aggagttaa aatgcgtaac actgattttc ataattttga ttaagtgttt 180  
taattagatt gcaagaatcc tctttccctt cctattgaag ttccattntc attttccttc 240  
atagagcaca catgggggtc atganactgc tcatttcttg ggttttaatg tgggttctat 300  
ttgttgatgg gttatgggtg gtgactttgt gtgtgatggt tgagtaatag tgggaaagct 360  
ctcatctttg gaccaatcc ctctcattt 389

<210> 12424  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12424

tcaagattta gtcttcatgt tgttcatggt gttctcccta tctctaacac tntgcctta 60  
taccaccacc tntccatct tcaccaccac attctcaacc tccaacacca ctgcctgctc 120  
aagattgact atgatgttcg tcattgtttt tatcttcaaa cccttttttg cttatgagaa 180  
aatggggaga aataggaatt ntgattgtaa aagaactaat atttttaaat aaaagtgggt 240  
ttggaatatt ntcatatgat ctctcattag ttattaacta ttattattat gttgtcacat 300  
atgtcatata taattntact gtcatatatt cttcccatga ttgaacttan ngggaagtta 360  
acaacattac atttttttca ctttcttata actctaatta cttttataaa tcanaattta 420

tattggttgt catcat 436

<210> 12425  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12425

ntgaaggggtg cgcagcccac catttttcat agtagagtat ctataatgtg tctaccatca 60  
cgatcatcgt ctccctttcc atcattgggg gtaccacctg ngccgccaga tccctccacc 120  
ttttgggcgt gttctttgaa agatccgtcc ccctttttgc aaatgttctg tagttgcatc 180  
ctatccggaa ccatatcaaa attgtactga tactggctaa caaaggcaac cattaggtcc 240  
ttcctagaat ggactcggga agattccaag ttaatgtacc acgtaacagc taccocagta 300  
agactttctt ggaaggaatg tattagcaat tcctcatctt ttgcgtattc ccccatcttc 360  
tgacaataca tctntagatg gttcttggga caagtagtcc cct 403

<210> 12426  
<211> 508  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12426

ntgaaacctg catcacggac acttaaaact cagcttaaca ttcaactgtg tgcgtctcga 60  
tgtattaccg gactctttct tactttctcc tttaaaggcc ttgacgggag aatcgggctaa 120  
tagcttagac attcaactgt gagcgtcgcg ctatattaca ggactcgatc tgacattcga 180  
cttaaaagtt attgacgtta gaattggctc acatgttcaa aattcaatgt cgaggcagct 240  
cgttgtatta cgggactcaa tcagcattcc gagtactaag tatcgtcttt gaactgggca 300  
catggtcgaa ttcaatcttg agcgggtgaa tatattaagg gacttcatca cacattcgat 360  
gtggaagcta ttgccgttta catgggcatg aggtcaacat ccatttccat ccgaccgact 420  
tattacggta cttaatcaca cattcgagta aaaatgattg ccgtgtgaat gagtcagatg 480  
ttgacatcat gcccaactcg cgtatatn 508

<210> 12427

<211> 243  
 <212> DNA  
 <213> Glycine max

<400> 12427

taagaagcag tgtgcattta ccgaagaagt atttccgtac gctgtgtacg gaataacttt 60  
 atctgtaaca agtcttttac agttacgaaa gaactctttc gtacaaaatg tactgaacac 120  
 gaacttcttc tgtatgtaac agatctacac ataatagcgg taaaatgcgt acctcttgcg 180  
 aaacaaaagt agctatggag ggcggccacc accattatct gacctgttcc aaatgactac 240  
 ctc 243

<210> 12428  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12428

cgtagctact ctcttccgcg tatagtgaac gcgtgcaatg atgagtattc aaatatacan 60  
 acttctattg gacgaanaga nngatttgaa ccttggtacn tcgcaaccg tgaccacatg 120  
 aactggaac ttctgtctgga cgctgaacag gcaacgaact cctttttcta aaccatgcta 180  
 cggtctcgcg accggtccct atctttctta cgcaacttga gtccacctat tgctactccc 240  
 ataggagcat gagccgaata tttgtgtccg cgccatacgt ttacactctg ccgagcccgt 300  
 cttggctctc ttgtgtcaaa ggcgtcttgc gagtaatagc aattcttctg tccgaaaac 360  
 cacggcagca cgtcactatt acgaacaggt gtgtatgcag gngcaactta gaactatccc 420  
 tctggcaagg attaagcctt tcactatctc tgctctatga gagctttgtg aattctatcg 480  
 tccacttggt ccgatgcttc aanaccattg tctttgctga cgaccgttta acatcgcgag 540  
 cgcatctaaa ccccggtttg aactttaacc cttcgaggac cccaccatga tgccttaacca 600  
 atgccctaag cccttgatct tttgtaacgg gattcccacc ctcaggaccn 650

<210> 12429  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12429

tgtcagatga gagacaagag nnttgagaaa aagttatagc atcacatagt ctccctcaag 60  
agactccaac agagattgct cccagaaatg accacgagca actcgaagct gaagtgcaac 120  
ctgtagaaga agttggtatg tgtccttttc ctctaaaatt atgtggttca atttgcaaaa 180  
tcaattctta cattttaatc taaatttcat tgactaatgt gtttggtatt tatgatcttg 240  
gtattcattt attgcttctt tgttttcgat attcagactt atatcanagt tattctatga 300  
gtgaggggga caacgatgat gatggtgatg aggatggnga tgaagatgac gatgangaag 360  
agtatgttaa tgtgatttgt catcaaaaat tctctagtca tttcaatg 408

<210> 12430

<211> 513

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12430

caacccaacc ccgcgacaac taaagggag aaannaaaaa aaaagaaaga aatgacctga 60  
accgcgacac gcacaacaac acgagccaga aggacgcca acaggacgcg gctgtacatt 120  
caccacgaca aacacgaagg acaccgggaa cctacctcac acacacaaca aacagcaccc 180  
gcccgcacag gcgcccagg gacacagcag ggaacaacg acacggccag atcacacgaa 240  
ggcaagaaga cactcaccac accaaaatca cccacaacca ccacatcgca gaaagagggg 300  
cccacaaca atagcaaagc acaccacaac ccggcacgaa ccacaacgaa ggccaccaag 360  
aagaagcggc nnncatannc ataccatncc tcattcaacg aagtaaccac acccccccaa 420  
cacaccaaac gaaaaaaagc agcactaacc aacgcacacc tccgacaatg agcgccgacg 480  
aaccacaaga gaaccaaca ccccgagca acc 513

<210> 12431

<211> 693

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12431

gggtcttgag agatgcgtcg ctctgcatg cgattacgaa agcttgtgtt gttccantac 60

ntacaaaagt cataggacga gncgaacttt gggaccttga ataccgtcgc cccctccgag 120  
 acaccacatn anactaatgc ttatgcacgc ccagttcgcg gcatcaaggc agcatgtatg 180  
 catgcttaca actctgaaca tgcacggctg gggtgattac tctancttgt gcgtgtcact 240  
 catcgcgcac cactgtatag aagcgcctcta ttccagagtg cngacagatc acaatnattg 300  
 atgagcaggt cactgtatat ccacgaatat gtgtgagtag cgaagatcgg acgagacaat 360  
 gggaaacaaa tcgacacttc gttatcacgt catcgtcgcct ancgttcttg attggaatct 420  
 ctctgtactg cagcgttcgc ttacgcgcgc ttgtcttacc tttgtggtag gaagacacca 480  
 agtatgagtt gtcatgaaa gctgactcta tccctcttag cgtcgatata tatatgggat 540  
 tattagtagt gatataatcg aatgctagtg agtcgaccag atatctctct cacataatca 600  
 aacctactca cctgcatcat aacttggttt cctgccacca tatectctgc gtcgactgca 660  
 ttgacaacca ccgtaccac cggtgtcatt ccg 693

<210> 12432  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12432

ggcttacctc ctgctctccg cgacgtctca tctgcgttac tcgtcgtcaa attgagacga 60  
 agtgaacttg aactgtcgcc tcggacacaa gaaactcaaa ctgtcgcaag agcgtcagct 120  
 tggcancacc ttccgttctt tgagattaga tagtggacca catgctcctc ctagtgggaa 180  
 aagcccaact gaaaagccat ttttgttact gaatgagcgg acatgggtga taccacagag 240  
 agactctttt gtgtgggact accagctgca ggtcctcaat atagatgggc gggagacaat 300  
 cactatgacg ttggcacact caccacagag tgtgtctcaa atcaccactg ctgaataatt 360  
 caccctgga tcaaactgag ttgtggatgg caaagtacta cacacgttac tattctaatt 420  
 gtttgatgg attatcaaga agacatccag agatggagat aagtgattca cactctctgc 480  
 tctggatatg acgaatatca tcatgcttct tagtgaagca ttgtgctcta tttgttagat 540  
 attggagcag ccn 553

<210> 12433  
 <211> 461

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12433

cttgataaac tggataaatt aattttcaat attaaaagta tatttaatat ctagaataaa 60  
aaataactta ccttgattnt ataaattcta taaaaataaa taaattattg ttatatatat 120  
atatacactt ttttaaaagt ttaaataaat gcactctaaa tttctaatta gccttttagag 180  
tgagctgagt atgaaagtaa aatatgtttc ttctaccaat gaggttcagt atccttaaag 240  
ctgttgacag tctcatgatt tccccgctt tgaagatata tttctttgga aaaaacaaat 300  
cttcttataa caatcgcggt atttatgcat gtgtttcata taatactact ataatatattt 360  
tcttataata attgngatat aaatttagca ttcgagcaac tgcaatgtgc acaacctatt 420  
atttangata aacaattact ttgtgtttca ataggaaatg a 461

<210> 12434  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 12434

cactgtatag actgctggtt ttatgtatta cagaccaagc gatgtgaagt gttaaccgag 60  
catattggta agactgacaa tctcttctct tctttttctt ctcatcctc tcagtcgaat 120  
tcttcaactg aaaaataata ggaaaaattc cgtcaatata aatttgcaag gtagaagaga 180  
atatataaaa aggttggtgc ttaacgatca gactcaccat aataacaaga atccggacaa 240  
aaactgagac caaatcggtt aacaaggta aggcattgtg tacatagtcc agatcgccca 300  
agtggtgcct ctcaacctat tcttggtgtg ctactacaat gtaacctata aacaccaata 360  
gcccagaagta caactgcaac acca 384

<210> 12435  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12435

actgatatgt cagatgaatt tgaatattac tntcatctca acagaggaca acgtcaatgg 60

ataataggtg tgcttttatt cttatgccga atataaatgt tattgctatt gtcaactggt 120  
 tggctatcaa aatataaggt ttatttgatt cttaaagtaa tttctatgct tttgcttctc 180  
 acaccctctc ttttaatttg agtatatgca ttaattnttt attttttatt tttggtaatt 240  
 ctctctgttc cttttcatca ttactcatca tgtgtttttg aattgatagg ccggacttaa 300  
 gtgtcattga cctctgattc tccatgtgga ctctcagagc aatggctctg aatcatcatg 360  
 aaacctgcat tggaaatcag cattgcctct tcaagtcgcc caataaacag actatgtggt 420  
 atggacctat ctttaaattt cg 442

<210> 12436  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12436

ctctgaaact cgtcttctta ctatcatgct ttacacatat atatacaaaa tgaagaanag 60  
 annnttganc cttgtnactc tngaactctc aactcagctt tctttccttg cttacgaatg 120  
 ctgagtcctg caatactagt ttaacaggcc ccattttata ttagaaataa ttctgaaggc 180  
 atggatcaac caacctaatt aacttggata ggagacaaac aaccaatggt ttacgatcca 240  
 caattgacca ctagatgcgt catgtactgg taatcttaca gcccctggta taacggtaag 300  
 cgtgctcact gctgttattc cttttttgaa gtggaataca atcattcctg ttgacctctc 360  
 cttttttcat ataaaatttg gatataaaag gaaaaaaagg accttacatg gcttaattgg 420  
 tcaaagaaag actactccaa taatgggttt ccattcattg aatttgggga ccataaacct 480  
 ctctggctac caaataaaat tgaataaaga aacccatta accattaaac cagagaccac 540  
 cttttttagt tg 552

<210> 12437  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12437

tagaatanat gtgaactgcg tacnctntgg taagaacctc cataagttga ctntgtgaag 60

gtgcatatgg agtacaaatc aagcagcaat tgagcttttc cttgataaaa tgtttgtaaa 120  
 cttctacatg ctttgttcga gcatgctaaa caggattatg agctatgctg atagttgatt 180  
 tattatcaca gtatggtttc attgggtccat cccattcaat cttcaagttc tttatggaca 240  
 caccaaattg actttttaat cgttgagaag atattntaaa agacattgct ttcttcagat 300  
 ttttgtttaa gaacaaaacc caagtgatct gggtagaatc atcaataaaa gtcataaacc 360  
 agcaagcccc tgaatatattt gaataggaga tggccctcan acatcagtat gaacagaata 420  
 aagaggaaat atacttttc 439

<210> 12438  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 12438  
 acagagtggg accttggaga tatgtcgcgg gggtagaag accttgggga cgtcaagtgg 60  
 ggtgctattg cccaaaacca aacttgacca atcccgaccc aacctatgca tagtcagtca 120  
 gtgagaacct gtgatgtacc taaacaggca agctcctggc agtcaacaga ttaaaggaac 180  
 aaagaccaca aagcatggag gcttgtgtgg tggtttgga gctgtgaatc ttgtgtgata 240  
 tatgggggtat 250

<210> 12439  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12439

tcacaaaga ctatcaaaag tgcacaacca acacctaagc cataagcttt ataaaaaatt 60  
 gtcaaaagtg ccaagtctgc accaccacca agttcttaac cacaacctgt tacacatgtc 120  
 tttgaggatt agaaagttca ccaacttggg gagatttcaa gtgatgatga acattatgtt 180  
 gtatgtgaca ttaattttgt tagtttatat ttgtaggga tttttttttt tgggcgaggc 240  
 aataactaac aaaaaagtca agtgatttga aagatcaata cctgttacat gaatagcact 300  
 taaggggatc caaagtctga aaaagttaaa ctattactaa tgtaattcan aggaaaataa 360





<210> 12443  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12443

tcaacatcag accacttcca ggggtgctgga actacttcac atggatttga tggngcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120  
 atttacctgn gtcaactnta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240  
 cagagaatth gaaaacagca ggttcactga attctgcaca tctgaaggca tcactcatga 300  
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaata acaggacctt 360  
 gcaagaagct gctanggtca tgctccatgc caaagaactt ccctataatc tctgggctga 420  
 agccatgaac acagcatgct acatccacaa cagagtcaca ct 462

<210> 12444  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 12444

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggtgtgtatc aagcaaagtc 60  
 tcacctcccc cttaggctgg accaaacttt aattgggttg ggcttctccc aattcaatta 120  
 aatttatctc ccaacacaca tcaaataggg cacttaatgc atgtgaaatt acaaaactac 180  
 ccctaattca gaaactagtc taggtgccct ataatacaag agctaaaaaa tcctacatta 240  
 ctaggggtacc ctccctacac tatggagccc taaatacaag tccccaaaat aatgaaatcc 300  
 taatctaata tgtacaaaga taagtggctc catacttagc ccatggaccc aatcttcttg 360  
 gagtcttcta tccaataccc tcgagggata gtgatgtagc tccatgtgga gcttgagaac 420  
 cttgatcttc ttcataatg ga 442

<210> 12445  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12445

acaacaagtg gagcaatatc tgtgtctact acacgttgtc gttgaccact atcactaccc 60  
 tccctacatg agagcctaga cgatgggact ctgacacttn cttggatgag tacaagaaca 120  
 cgtctctgta cgtacatgct atcaacagat gaatggcctc atgaagatta cactgaagat 180  
 gcattcatct ggatataaac tgcacaaggc actctacacg tgtatgcgga actgtatcag 240  
 actaccaaga tgatactcgt gatggggagtg ccattttcgc acgcatatat aggattacta 300  
 cgatggacct tatccacgga tattacttga ccgccatagg atgaacaatt tgtgtcttgt 360  
 taagccatga tagcatacgt attgctgttc acctcaatta cactacttga agaaccaaca 420  
 ttcttttgtg cagcgcaata ttatg 445

<210> 12446  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12446

tctggtggga catcttgact tgctgtccaa tctgacattc accacagatt ctgccttctt 60  
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
 tgctgccctt cattaagact tcaactcttct catttgtcac caagcattct gacttttgtga 300  
 agtttacatt gaatccttca tcacacatac gactgatgct gatcaagttc gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttccattc 420  
 cagtgatc 428

<210> 12447  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 12447

cgcttataa cggtcctctt tgcttatatt gggtaaaatg gaccattcaa agcataaaat 60

caacatataa atttatcgct ttgcaagaa ctacgtaggt atgattttct catcacaatt 120  
gaggatacgt aggagcaaaa gcccacttt tgcgaccac cccaagagat cgtaattat 180  
ccaacgcctt aacgcttctc tcatttcaaa aatcaagaga tcattaatgg tccaacgcct 240  
taatgtttct ctctttcaa aaccaagaaa ttgttaatgg tccaaacgcc ttaacgtttc 300  
tctccttttc aaaaatc 317

<210> 12448  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12448

ntgaacctct gcacattgaa ctatgatact cagctatcac tggagttgaa gagttttgtc 60  
attgccgaaa tcattcacta ccacagatgg cactttttcg cccttggtt aaatgtgtcc 120  
accggaggcg tcattcgctg gatgacctta tatcgcatct gatatgtgat ggctttaacc 180  
cgacgtacac caagtggata tggcatggtg agttggttgg tcatacagca acatgtccac 240  
cttatccggt tgatctacaa agcggagatc tcattggaaga catgattcgt gatcttgggc 300  
caaagggcct tcgggaatgt catgcagata ttacgatgc tcttcanaca gatgcgcata 360  
cgccatttgt tggatggatgc catagcttta ctatggtatc agctgtgcta acttttggtta 420  
acctacaagc tcgattcagg ttgagtgacc aaagctttac agagttgggt tgttatggaa 480  
atatgtttcc tgacataaca gcttaccgc 509

<210> 12449  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12449

tttttttttt tatctggttt atttcttatt ttcatnttt ttatttatct catgaatctc 60  
tgcataaat caaatataat taattttttt cttaatttat tattcaaat agtaatttct 120  
actttctatt caaatgttta ggtttcttcc atggatatta attatcttta aatattaatt 180  
tataaatcaa ttgatttata gttacaaatt acacttatta tatatatata tatatatata 240

tatatatata tatatattaa tttcatttat taatttatat atatatatat atatatatat 300  
 atatatatat atatcatagt aatacctggc cttaatttaa aaaatttatt ttgcgcatctt 360  
 ttaa 364

<210> 12450  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12450

tctttttaccg taagagatgt gttccanatt atctagctat cacaatcatg ttgaaagcta 60  
 accaattgat tctgaacatg tacttcccaa tcagtggatga caaggggtgac agcattaaag 120  
 catcatacct ccatcatctg gatctattga agaagagtgc cgcagttgca gagatcacga 180  
 gaaagtcttc aacaaatgag aacactntta cagtangagg gtcttttgct gttgaccctc 240  
 tgacacaggt canagcaagg ctcaacaatc atggaaagct cgggggcctc ctgcagcacg 300  
 agatcatacc anagtcagtg tttactgttt ctggtgagat tgacaccaan ggccctgata 360  
 aaaatcccag gtttggtattg caattgccct caaccttgag gttttattca tttttagaaa 420  
 gtgatcgag 429

<210> 12451  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12451

ctcaagctta tccatgatgt ccttcatcaa ttctttcacc ttcaaacctt ctgttttttt 60  
 tntactaatg aaaaaagggg gagaagttaa tgaaagaaat ttttttaagt aaacactagt 120  
 caatcaataa aataaggcgt tttgaaagat atatttgtgt ctacggctac atccactcat 180  
 gcacatacat attatactta aggggagcta aaagctatca aagatagcat tctgatgcgt 240  
 agacattatt ctcatatata cttgctatat tcaactactca caatttatac agcttgatcat 300  
 catcgaaaat tgggagattg ttagacacca gacgatccat cactagaaga cccaaccatc 360  
 ttttacgata ttgatgagaa caaatatata atattatgtt aaccactttg ttgcatgtga 420

gtcaacacgt ttgatgactg gaagctacac caggagaaac ctattcacta ctagataact 480  
cacctact 488

<210> 12452  
<211> 249  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12452

tatgcttggt tcctaataca aaaaattgaa accaattatt gtaaggatta atagaataaa 60  
aatgcataat cgtgataacc ataaccgaat gaaaaattct aaaagggtcat gagcttcact 120  
tctcgaaaaa actaanacaa ctttataagc attatagtca ccatttgga cacaataaaa 180  
aacacttagt aaggaaatca taaagcaacc tcgacattaa taaataggaa atatacttca 240  
caaatgat 249

<210> 12453  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 12453

gcacctctta atgaaattgt ttaagaaaaa atgtgggggt taaatggggg agaaacaaga 60  
gcatgcattt actgcactca aaggaaaatt gactcatgta cctattcttg tattacctaa 120  
ttttaccaa tcttttgaaa ttgaatgtga tgcattcaat gtggggataa gggctgtttt 180  
aatgcaagaa tgacatctca ttgcttattt tattgaaaaa ttgaatgagg gtgtgcttaa 240  
ttattctaca tatgacaaag agttttatgc attgtaagg gcattacaaa cttgacaaca 300  
ttaccttttg cctaaagtat ttgtcattca tagtgattat gagtccttga agccattaat 360  
acgacaagac aagctgagca agagatatgt caagtgggtt gagtttcttg ataatttcoct 420  
acatgatc 428

<210> 12454  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12454

cgtcatttaa gagcttcaca tatatttggn gattttcgca ctctacccca aatatcattc 60  
 tacattgttt tcaagtcctc ataatcattg tgtgcctgtg aacattctca ccataaatca 120  
 taccttttct acattgagat cttttaactc cttttgtata gcctcaattt attttctaaa 180  
 atattaaagt tcctcatcat agcatcccat tttttgaaa ctttgtcatt ctctagaaca 240  
 agctctctct cccttgatat caacgttata taagcttcac tgttttgagt aggtgggtatc 300  
 acagaactta tatttttagt tcgatgggtc tatttaagct tagtattatc tttggacagt 360  
 ttcttaaatt cttctcacia g 381

<210> 12455  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 12455  
 tgaaggacat ggcctactg tgaatatatc atgtggccct gtcgtgaatc agacatatgc 60  
 tcaccttcca ctcatgctgc agcacacttt aatagcactg ggctactgcc aattcaatta 120  
 tagttatcta ctaacacacc tcagatacgg cacttactgc atgtgagtat cactaaacta 180  
 cccatagacc ggagactact ctatgagccc tatagtacca catctaattg aaaatacatt 240  
 actaggcgac cctccctact ctatggagcc ctag 274

<210> 12456  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12456

taatatatcg agactctcga aattgaacaa cggaagctat cgagaaattc aaatgggtcaa 60  
 tacttcgaac tcggagggtc tattaagggtg cataatatat ctaaagctc aaaattttac 120  
 aatggaagct ctttggtat acaaatgggtc ataacttttc actcgaaggt ccgattaagg 180  
 cgcataatat atcgagacgc tcagaattga acaatggaag ctcttgagca attcaaatgg 240  
 tcataacttg tctcngag gtccgattca gctgcataat atatcgtgac gtcgaaatn 300

gaacaatgga agctcttgag caattcaaact ggtcataact tgtcac 346

<210> 12457  
<211> 465  
<212> DNA  
<213> Glycine max

<400> 12457

tgtccaaaga ttggttcatt aacttattct tggacaaaaa ctggttcttg agccacaatc 60  
attagaggtg ataaccttta tgttaacttc aaaacattaa aggtctttta gtgtccatcc 120  
catgttcgtg atttgttatt taattggaaa cttgagcttc atcaagttaa atcatttttc 180  
catgactagc tctacaagaa gtttcctttt tagaaatgtt actcgtcttg ccacaagcac 240  
tgtatggtca gaaggttggt ataaacaata tttcataatt tctttgggat acccaatgag 300  
tctacatttc tcataccttg gctcaagtgt gtctatttgc aatctcttaa tgtaagtggg 360  
acaatcccaa gccttggtgc gtttgagatt cattctagcc ctttccatat cacatatgga 420  
gttgtacata tacttttcta agacatgatg tatcacatac acttt 465

<210> 12458  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12458

gagcttgaca agctgccata gcagcaacaa catattctgc ttcacatggt gacaaaacaa 60  
ctagactttg cttctttgag caccaagaga ttggtgatgt tccaaatttg aaaacatacc 120  
cagcagtgtc tttcctgtca tccttatcac cacaccaatc tgaatcacta taaccaacaa 180  
attttccttc tatattcttc tgactgtaaa gatataaaat gccaaagatcc aatgttcctt 240  
tcacatacct cagaatcttc tttgctgcct ggaagtgagg tgtcttggtt tctccataaa 300  
cctgcttata aaccaaacac aataggcaat gtcaggtctg gtgttacata ngtaacctcaa 360  
tgagtct 367

<210> 12459  
<211> 390  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 12459

cccatcacat gtggtactat gtggcggtcg ggcgatggtg cacaacaagt gttacacatt 60  
cacaatgcgc gcataaaccc accatcctct gttggccacc tgcaactgag ctcacgtact 120  
cccacgtagc ccatattctc ggttctctca acaccgggtg cccatcaatc cttccaagct 180  
ttcacaacat tcaagcaaaa caacattcaa acagcacaaa ctaccacagc caagaaaaca 240  
gggcaaaggc agaaaactct gctcaaacac caaccaaaaa tcacagcttt tctcacttat 300  
agaccccagt aacaattcct tcgatccaat tcggttaaccg gtggatcgac tncaaaattt 360  
tactggaagt ctctagtaca taagcctaca 390

<210> 12460  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12460

tcttgggggtt gcaacagggg ctaggactat ggaccaattc catatttggc aaaggcatca 60  
taattggaat tctggacacc ggcataaccc ctgaccacct ttcgttcaat gatgaaggaa 120  
tgccactccc accggcaaaa tggaatggcc gctgtgaatt cactggggag aagacttgca 180  
acaacaagct cattggtgca agaaattttg tcaaaaaccc aaactcaacc cttccactgg 240  
atgatgtang tcatgggacc cacacagcca gcacagctgc aggaagactt gtgcaggggtg 300  
ctagtgtctt tggcaatgct aagggttcag cagttggtat ggcaccagat gcacactntg 360  
taatttaciaa ggtttgtgac ctctntgatt gttccgaaag tgcaatacta gctggaatgg 420  
gcactgcaat acctcacttg gaggaccatc tggttcctttc tttga 465

<210> 12461  
<211> 123  
<212> DNA  
<213> Glycine max

<400> 12461

gctgaagttt cttttggtga aggaaccatg gaaaagcaga gcgtttggaa tggtttaacc 60  
aatttctgag aactgttggg ggatgctgaa aacgagatta tcacgaatat ataagtttga 120

atg

123

<210> 12462  
<211> 465  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12462

tgccattcac tgnnactttt atattattct attctattaa gtttttntta gaagattggt 60  
ttattaaggt taatttagtg gtaaataaat aattttatga attacaagtt taaatttctg 120  
ccataatata caaaaaagta tatatatattt attagagatt ntatgtcgaa ttgtaatata 180  
cataaaataa agtatataaa ttgaaaataa cttttatatt tagaggtaat ttttaagatt 240  
aagctagaat caatccgaaa ttgttggatt gtataacaat ttatcatagt aattattggt 300  
tggctaataa ggctcttccc cttattggat tattattaga tcaactctga ttgtgtaatc 360  
ttataatttc acgctctaaa tatntttttt ccacgtgaaa atagtgtatg agagagctca 420  
cattaattag taatgtgatt agagtanaac atatatgtag aggat 465

<210> 12463  
<211> 474  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12463

tgtagatcaa tggagtcctt tngaattact tatgattcag aagatagaca ctatgttnta 60  
cctccatcaa gactactcag ttgaaattca tagttcggtg gagaatataa ctacccaact 120  
ggaaaacatt taaactaggc taacccttag caacctcctt aaccctaag aggacgacac 180  
ttagttgtgt tataagtgat tgctgcaacc tacccttcaa cgggagggcg aggcgaaacg 240  
taatagtgtg tcttctcatg atgaaaacac atggagtccc caccaacaat tattcaagga 300  
aaacgttaga aaaacaaaa agaggggtgt aatgatgaa nataaagggt cgggagttgt 360  
ttacgcttgg ngaaggatt agcaccacac acgcccgcac aagagactgc agcctttaat 420  
cgagtgtgca taacatgnac ttcaaaatat tacttttctt ctttatattt ttat 474

<210> 12464  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12464

tgaaccacaa accggtgaaga gtgtgacctt aaactatgag tgaacgacta gttgtgagta 60  
 ataatctttg catgaatctc tgaattntag aatgaaatgt ataaatgagg acatgatgaa 120  
 ggccatgggt gtacatacac aagttctctg accaaatagc ttaccttgaa tgatacttgt 180  
 atcttttgct cctgtgtata aagcttattg atttgtcatt aactgaacgc tgaactntaa 240  
 atgattatct cctaatacct tgttttagatt ctaggagagc atatgcttca aggaaaattt 300  
 actctaaatt tgggggagaa aagttgaaaa gaatgaaaag aaaaaggta agcatcagca 360  
 cacacaacac ataagttgta tgttaaaaaa aaaagagaaa aaaataagtt gtgctggtac 420  
 aat 423

<210> 12465  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12465

ttaacacttc ttggcaaaaa acttanatga tgtttaaatt ccaattattc acataaaaaag 60  
 gaagaattaa gagagaaaat ttaacaattt ctacataatt taatcccaaa atatacctat 120  
 acatagcagt tatcagtgat tcaaaatgca agaagaatga taaagaaaag gttaaagatg 180  
 atgattacga ctacaaacct gaagatgaag gagaaattgg ttcaaattgt ttaactaaac 240  
 aagataggga tgaaataggt gatggttcca tcattgaaaa tgcttttggg taccaaaaaa 300  
 gaaagggttag tcttgaaaaa ttgtcaacat tgcttttctt ctaaactatc tttttggaag 360  
 atactttntt ttcttttcta nattgtatat tagaaaagat aaagtcctgt gttactattg 420  
 taaattctag gtatctcatt attacataat tntatcatc aaaacataca acat 474

<210> 12466  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12466

tgtgtaatcg ggagattcaa ccctctggct caataatatt ttaccaggaa tgttacgacc 60  
cttgagtaac cttcaciaag gagaaatata aaactataaa ttcccataaa ttgtataagg 120  
catgtgcttc catgaaatgc attttcaaag caacaataat ccataacact acgaaaagaa 180  
ggttcccaat ttgactgaac ggaatacagt cacatcagca ttggattcaa tcagacacac 240  
ataaaccatt tccaaccatt tcttagaatt tcacccttcg aaaattcgtg atcttaatgc 300  
caaaaaaatt caaatTTTTT taaatgggtt gtctaaatcc gacggatgaa aacattanga 360  
agtgaagatc agcgaatcan gcattgaaat tcttgagatc ac 402

<210> 12467  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12467

tgctttagg gcttctatgg aggctggatc tttgagcttc aatgaggtcc ttcaatggtg 60  
attntacacc atggagatgc agcggaggc aaaggagaag aggagaaggg aggcaccatc 120  
cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgtct tggataagaa 180  
gcttgaagag gatgctttaa tggagaaaaa gaaagagaga aggggggagc acgaaattga 240  
aggaataata gagggagaga agttgatctt tgagttgtgt ctcaacagac tatcattcat 300  
caaagttcca acaagtgtta cacatgtttc tatttataga ctangtagct tccttgataa 360  
gctntcttaa gaaaaacttc ttgagaagct tctttgagaa aaattccttg agaagctaga 420  
gcttagctac acacaccnt ctaataacta agctcacctc ctga 465

<210> 12468  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 12468

tccactccag ttcccatagc agtacctgac ggggtgtgatt ttcaaactgt aaaaaccaga 60  
atacacaata cccttaagct aaccgacaag caatTTTTTg atgaaattta ctatcggcag 120

cctttcacgt atgcaggtaa tcaatttcgg tttcaatgta tgcaactgat agatgatgct 180  
 gatgttaaca caatgttaat gtgtaatcat gaattctcat ttgttggttc gattgagtta 240  
 ttatgtagca ttgctagaac cccaaatggt attttaaaca tacttgaagc tactatgacc 300  
 cctactcatg atgccctgct atattacaat gggagggtgga acatgtcacg ccaaaatgag 360  
 tatgttggtt actcgctcac aggaaaaaat cccaaaactc tgacattcca tcggatgccc 420  
 atggtgaact gaaggattga tcacaagt 448

<210> 12469  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12469

agcttctata taaggtttgt tcctaatttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaga atgtggcatt tacctgtggt gaaaaacaag agcaagcctt ttctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
 atttcttatt ntagtgaana acttcatagt gccgcctca actacccac ctatgataaa 300  
 gagctttatg ccttaataag agccctccan acttgggaac attaccttgt ttccaaggaa 360  
 tttgtcattc atagtgatca ttaatcactt aagtacatta gagggcaaaa caagttaaac 420  
 aagagggcatg cataatgggt 440

<210> 12470  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12470

agcttctatg tgatcaatgt gtctatcatg tgttcaacaa tatggatgag gactccaagc 60  
 ataccttaat agttaagggt tcaatagttg ctaaaaaaca aaagttagc aaaactaacc 120  
 tgaaggctat gaacgtggcc ttggaacaaa cctggaagga ggctctagaa gtgggcgtgg 180  
 aagccatcag atatcgaaaa caaaaaagat tggccaagtc cattgttgaa tntgataaga 240

tagaaatgaa tattccaaca tgtacgatgc attagataaa gagtntgtgt gtgtaagtat 300  
aggataatat tgtattaaat attatgggtg tacaatgaac aaaacatatt ctaagtttta 360  
caatgaatta tatgttntga tgtaacatcc tcagctctac atcttagtca tcaagctgat 420  
agtataaacg catatgata 439

<210> 12471  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 12471

tttgctttgc atgctcggtc cactgcagtg gacggaacta tgtgggtact gatcgacgca 60  
tgctcgatga tcctagtagc atgacagata ctgctgacgc ctcttgagag agcctgcaaa 120  
ctggagatgc ccatactgtg actgttggtc atatactgcc aagatctgca catgaccgag 180  
gaatagtgta tctctgactt tcac 204

<210> 12472  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12472

agcttaggat ttcatctctt tatcttcaat gcaaggaagt atgacttatg cctaanaatc 60  
taaatttttg ttttgaaagt ggaaaggcgt gaaaattaag acatgcttga gaggggtttt 120  
actagaattt ggctgcccc a tgagggatac tttgcatcta ggtagcatgg aaaatacctt 180  
ttaatgggtat gtatatatgt gtgtgaatat aggtagcatg gaaaatacct ttcaatgatg 240  
tgtatatatg tgaatatatg taacaccctg atatatatat ctatatatta ttagtaatta 300  
atgttgatgt ttgattatgt gttgcgttat tttcatcccg taattatgtt aagggaagtt 360  
aattagttaa tagagggggtt tggatagata aggatctaac ttctc 405

<210> 12473  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12473

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accanattga tagagaaaaa tctaaaatca tacatcttag gcaaataagg catgctagcc 120  
cccaacatta ttgcattntg attccatctt tggacattca aattggtgtt tatttttcct 180  
gttatctttt cctttgcctt agtctaaatt tcaaacttac aattcggtat ctctttcttc 240  
ttttgtttct cctcatttct taataattgg atttgcattca ctttaagtaca accaaagtcc 300  
ctctggattc aacagttgaa cttcaatttc aatctttact acttgtgata aaattaagac 360  
actngtcaat ctattaacaa gtttttggca ctgttgatgg ngactntggt tntcgtactt 420  
ggttggtaca aatcccaatt tg 442

<210> 12474  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12474

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cctgcatgat ttacattctc cccctttttg atgatgacaa gcattatcca aggcttgatc 120  
tttttgacat catcaaaatc ttcatgattt acattctccc cctttttgat gatgataacc 180  
acctataagt taggagcaac aacaaagaan aaatatctat ttgcatatag tttactcccc 240  
cttggttntg gaatgtttgc ttatatgaga caattgaaga tttcatattt ttcatatata 300  
aaaagttgtc tcataaagaa tagacattnt tccttactaa tttatcttgt atatttctct 360  
ccccctttgt caacatcaaa aacaaatcat gaatagagag gagaaaaatg ttaccacttg 420  
ttgtaatgta taanaatcaa gt 442

<210> 12475  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12475

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 gtgcgtcggc tttaatgact agttcgggaat tagagtttgc accacatttt attataaatg 180  
 gtgaggacga gcctgtatta aattggagta cattccactg tgcaacgtca gtttcagatc 240  
 cagagcccag atctgttgat ggcttgcgac catgaganat atcttgaatg gngtcatctt 300  
 cttcaggaat tgactgtatg ataacaaaat aaaggatttg ggcatcaaag aaaatcaatc 360  
 canattcatt ntcactcagt cagttcttta gcatatacct aagctatagt cacaaacagc 420  
 aaagtaatca a 431

<210> 12476  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12476

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 gagaggggtg tgtgtagcta agctctagct tcccaaggaa gttttctcan agaagcttct 120  
 caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180  
 gtgtaacact tattgtaact ttcattgaatg agagtcttgt gagacatact tcaaagttcc 240  
 acttctctcc ctcttttatt ccttcaattt cgtgctcccc cctctctctt tctctccctc 300  
 tntcttttcc tccattgaag catecttcca agcttcttat ccaagggtca tcttggtggt 360  
 gaagctcctt cttccatggc ttattcccta gtggatgaag cctcctctca cctcttctcc 420  
 tttgtctccc gctgca 436

<210> 12477  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 12477

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 gtatacaagt aaagctttgt acaagaagga tgcacatgct agtaaataatc agcctcctga 120  
 atattatata gggctcttta catgaaatga ggtatcatatc ttgtggaatc ttagtaaaaa 180



aatagttggg tgaaagacta caactcgtat atagctagtg aataataagt tgtcatcacg 240  
 ggccactgaa acgattaagt gcgtgaggtc caatcaagct gaaatatcac atcatgatgt 300  
 tgatagggcg gtgcttgatg ccggatacat cacgtgtaag agttcatttt atgtatcttc 360  
 ctctattatc aaatatgatt gtggcaagtc attacagttg tgggtgcagca gtattagcat 420  
 cccttt 426

<210> 12478  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12478

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 cttggaggag gcagagccat acaactagga tcggcaaact tgtgatctat ccatcattat 180  
 ttcttttagt tattctatta ttctgttatt tcccttgtga tctgacatta tctgcttcca 240  
 aatattatgt ccattgtgat tgaactgcac atgcagttat ctgtcgcatt gtgagtaatt 300  
 taaccgcttt ggcatatggc cgtacttact ntacgatgat ttgtctgaaa cacanaaatg 360  
 tgtaagtctg gtgtactttc gttcacacac tttntttcaa taaaatgtaa tctcgggtat 420  
 caaccgtacc ca 432

<210> 12479  
 <211> 319  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12479

agctttgnat gtatttttgt gaccggtgc tgagaggaac gatgattaag gctacatggg 60  
 agtacgtgag cttagttgaa ggtgggcaac tgaggatggg gggttcatgt gtgatttgtg 120  
 gatgtggaga gttgatttgt accatcgccc gatcgccacc tattaccaca tatgacgggt 180  
 accccataat cctacaagct tgaagtgata cagtgtggaa gagtcagtct tcctactttt 240  
 attcgtagac cacagagtgg tacctggaga tatgtctcgg cggtcaggag accttgggga 300

cgtcaggtgg ggtgctatt

319

<210> 12480  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12480

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tcctagagaa gctagagctt agctacacac acctgtctaa tagctaagct cacctccttg 120  
agatgagaag ctagagctta gctacacacc cctcataata gctaagctca ccctatgaca 180  
taatagatga aaatacaaaa gatgtcccta ctacagagac tactcagaat gccctgaaat 240  
acaagatcaa acagaatggc aaaatcaagg cccaaagatg gaatacctat tcgatatttc 300  
aaagagagag ggtccacctt ggccatggct cagnatctac ctgagtcatg aaacctaggc 360  
ctcttatagc ttagccatcc t 381

<210> 12481  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12481

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gcagatgaaa ctcaagttta gttagtctaa acctaaagagg gctgtctaaa tcgagcctag 120  
tcttacatga gggatctgcg aatgaagctt ggattaattc ggccctaacga gggattgaag 180  
gtttagtaat ttacggtata acatagaaca caagagcatg attgattata gaaatatatt 240  
tctatgcac aacttatttg ttataaagac ccaacatttc taccactgc tgtcatttta 300  
tttaccttgc attgtatatg ctttagcata atagtttagt cttaaattctg tttganatta 360  
tcactcttac atgttctctc aacatgcttc gattctgaac ttaattcaag ttaacattag 420

<210> 12482  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12482

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 accaagaaga attaaatcta gccatggccc acgagcacia agtggcgggc gagtatgccc 120  
 gagtgtacgc agaataggag gctagaggaa gggatgatcga ctggttacat caagaggcaa 180  
 caatgtggat ggaccgattt gctcttactt tgaacgggag tcaagaacct ccccgattgc 240  
 tagccaaggc caaagcaatg gcggacacct actccgcccc cgaggagatc cacggacttc 300  
 tcagctattg tcagcatatg atagacttaa tggatcatat aattagaaac cgctaggaag 360  
 ttngtattgt cactcagatc ttttataact ntctgaataa natgagttaa tcccacgttt 420  
 ttact 425

<210> 12483  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12483

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 aacttatcat tggagaaatt ggggtacatt tgtttcatat tgagggttacg agaattttga 120  
 ttgaaaatat cctttatgat ttttcataa tgttctatit tagtttgccc tataaatcct 180  
 tgagcttgac ttgattttat tcattttttc ttccataaac tactttcagg ttcttatctc 240  
 ttcatntttt atttggtggt tctctcattc tctatcaatg ttgtgagtgt gtattgatat 300  
 ttttttctat tttattttatt tatattntat tgtacgttta tgcttatcat tntctacatc 360  
 tacaacttca tatttcatca ataaaataag tgttntaatg catgatgcan attccaaatc 420  
 acaatntgct ttatttctaac 440

<210> 12484  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12484

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atatatacgag ttgctcgaaa tggaattccg aagctctgag canattcaaa cgacaataac 120  
 tntttactcg gatgtctgat tgagtcccg aatatatcga tttgctcgaa atggaattcc 180  
 gaagctctga gcaaattcaa acgacaataa ttttttactc ggatgtctga tttagtctcg 240  
 taatatatcg agcttctcga aatggaattc cgaagctccg agcanattca nacgacaata 300  
 attttttact cggatgtctg atttagtcct gtaatatatc gactgtctcg aaatggaatt 360  
 ccgaagctct gagcaaattc aaacgacaat aactttttac tcggatgtct gatttagtcc 420  
 tgtaatatat cgagattct 439

<210> 12485  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12485

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 agctgggctt caggcctggc caccttgtcc agaaattntt ccatggatac tattggccta 120  
 ttgtgagcta actgttgttg gttgtataca atcaccagct gccccctgaa taagctctgc 180  
 aacataggaa ttatgggttg tgcatgttgg gcatctgggt ccatggttgc tgtcggagga 240  
 ggtgggttgg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300  
 aagaaaagaa tgtgaacatt tacaaaaatt aagacaacag atagataaag gccgcttagt 360  
 gaaatagcag ttgcttagtg gtccctacan aacaatatat atcgcttggc gaagtanaag 420  
 tcgcttagcg aagtttcaa 439

<210> 12486  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12486

agcttaagct tgtcttgcata tataaataga ggaatgttat cttttcatac taccctatgt 60  
 ataaaaaag tagtaaataa aaaataatag aaaattttag aattatttta aaattatgat 120  
 attctcattt atttaaacag gtcaaattca aagtttggat ttggcttgtt aaaaagcata 180

atacttacat ttgacttggt tatcttattt ataactttat ttttatattt atcaaataca 240  
 ttcttaattg taagtgtatt aatataatat ttaatagatg ttttcattta gaagatgata 300  
 tgaaagaaag agaataacag aatgggttaa aattcaaaag atatataata gtaacttntt 360  
 atgacgaaat tgtaatttat ttattaaaag agaccacctt catcaagcat ttaataaacc 420  
 tacattaata cactgacaaa g 441

<210> 12487  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12487

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 gctaacatat tgtagccata ttatctgtgt gtgactntgt agctttctgt taaccatggt 120  
 ttactttcac agttntgaat tactatttct caacattaac attcttagct atggagctta 180  
 accttgatct cccccctctt gagaattttt gtaacatctt ctacccgaca tatatataaa 240  
 taaataaaaat atataaaaat attaaacaaa ttcacatgga taaaagggtc acctatcaca 300  
 ttcacttcac tattaccaaa taaaacttat tanaaatata tttggctcan aacaagggcc 360  
 gtcaaaaatta caaaatattt tgttaaatca gtgaggtaaa ataanataga ctaacatcat 420  
 ccaattaata ta 432

<210> 12488  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 12488

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 aaaatccagc ctccatagaa gcttctcaag caagcttcca tctcctaac acttaatcaa 180  
 tccaaggatc cattccaagc aagggtgaat ttgagttcta atttaatat tctaactcct 240  
 gtgaatgttt atctttttct tcaatcctat ttttgatttt catgaatata ttatgcttag 300

gattgaaaat ggattagggt atggatttat ttcctaattt cacaatttaa tcacagaatg 360  
tatgaatgat tcttcaacct aatttgtgat ttcaaacaat taagggaatg attcgattga 420  
actatatcta atgcat 436

<210> 12489  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12489

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ccaagcccct acttctgagg ggcaactccc gccttatgac gactatcccc ggcaagacga 120  
tgaggaagga gatacccatc tcggccccct gctccacctc anagatccgt ccncacatga 180  
actaccccaa ccgaacatag tctgccatat cccggcctca cccacacccg taaaagaatc 240  
tgttcccttc gcggaagata agggaaagat agaggcgctt gaagagaggt taagagcagt 300  
cgtgggcctt ggcaattacc cattcttaga attagcggat ttatgtctcg tgcccaatat 360  
cggcattcct cccaagttca aagtgccaga ctntgatacg tacaaagga cgacat 416

<210> 12490  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12490

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aacctagggt ggtgactcac tctttagacc gataattctt ttaatcatac tcttaaaaga 120  
gcaaacaaat ttctaattta taaaatatat cttaattctt aaacaacatc ctanaagtaa 180  
gacaatatct ttttttaa atacataata ttctagagat ttaaaattat aaatttaaat 240  
tatttcctaa ccgttatgac aagattatag attggctatt tagccatgga ttgattgcca 300  
agacaatatt actattgaag gagaaat ttttacaaaa atactatgat tccacatctt 360  
aatcataata atttaattta aatattcttt aattnttaat tcttgtttct cttctacacg 420  
aataaatc 428

<210> 12491  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 12491

agctttattg tctaacaagc caacttaca cagcaagccc caagagactc agcataagga 60  
 tgcacagacc aaagttgCGT atgtaaaaaa attgtatgac caagtgaagg tgcaaattgc 120  
 aaagaagaat gaaagctatg ccaagcaagc ccaaaagaaa aggaaggaag tggTacttga 180  
 acccggtgat gatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240  
 gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaaggac gaaggcccaa 300  
 gtggagaagg acaaagcccc cgagtggaga aggatgaagg cccaagtgga gaaggatgaa 360  
 tgcccagagg cagagacact atcaagacta ttaattgatg ctg 403

<210> 12492  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12492

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 gtatagcata attgaatggt gcaatcccaa tgtgtgatta agagacaaac acttgaatgc 120  
 acttgtgagt gagtgaaaca cttgattagt gaggagtgtg ttcttcttgc atcaatgatg 180  
 aattgccatg cttgttgttc tccttgaatt ttgagcttgt gtatccttgc tatggctctc 240  
 taaagaggac atccctgtga ataattgagt ccttgtccca ttcacttttt tttatagaaa 300  
 atacatgtgt tggatatgtt aggatggaat cgatctcaac tcatgtcaat ggTTtaatct 360  
 tagcactagt agttatcatt taac 384

<210> 12493  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12493

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 gccgtctttc tttctttaca ttttaagcca ttggccaaaa agctatcccg atgtatattg 180  
 ttttatcatt tgcaaacctt ttgagccaaa cacttcataa tttgttggaa cactaaccta 240  
 ngataagaat ttcctacctt accttangtt gagagcaaag gtgttttgtt aaggatttct 300  
 atcatttggg ggctaattgt atgtaaatac tattttttaa tgtgggtatt aagggaaatt 360  
 aaatatttaa ca 372

<210> 12494  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12494

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 acgactcgaa cgcaacgtgt gcttgtcacg gagaagcccc ggggcgttcc attgagcatg 180  
 gtagggctct gaagcgtaag gtgcaaggtc taattgatgc gggctggctg aaatttgagg 240  
 agaattgctg gtaaactctg acattgacaa gagatgccac acatggggca attttgaaag 300  
 ctgttgtag gtgtccctaa tgactcatca gggtttccaa gtttatgcca ttattgtaaa 360  
 ccacagctac aatgttaa atganatggata aagttgatat ctntgtccct catcctctca 420  
 caaacgcat 429

<210> 12495  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12495

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 atccctatcg caccagatcc aaatctagaa cgatgggtga tcaagaggag acacaggaac 180



agatgaaagc cgacatgtcg gctctgaaag aacagatggc ttccatgatg gaggccatgt 240  
taggaatgag gcagctcatg gagaaaaacg tggccaccgc tgccgctgtc agttcggctg 300  
ccgaagcaga cccaactctc tcggcaaccg cgcaccatcc tccctcanac atagtaggac 360  
ggngaaggga cacactnngg cacgatggca accctcatct gggatacaac cgagcggctt 420  
acccttatgg a 431

<210> 12496  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12496

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agaaatacac aaaaggtaca cttctctata tttgcataga ggggtgtttt cctaaggact 180  
gaatgaactt gcctgagatg tcctaagtga tcatctangc tcctgctgta cactaaaata 240  
tcatcaaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg atgcataagc 300  
ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca ttcatacaaa 360  
ccanacttgg tcttgaaagc agttttccac tcatcaccct ttntcatcct gattnnggtga 420  
taaccacttt taagatcaat t 441

<210> 12497  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12497

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ttgtgagcta actgttgttg gttgtataca atcaccagct gcccctgaa taagctctgc 180  
aacataggaa ttatgggtgg tgcattgttg gcatctggtt ccatgggtgc tgcgggagga 240  
gggtgggttg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300

aagaaaagaa tgtgaacatt tacaaaaatt aagacaacag aaagataaag gccgcttagt 360  
 gaaatagcag ttgcttagtg gtcctcacia aacaatatat atcgcttggc gaagtaaaag 420  
 tcgcttagcg agttttcaa 439

<210> 12498  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 12498

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 gctgcaactg agctgacgta ctcccacgta gcccatatgc tagtaaatga agctccgggt 180  
 ccccgctcact gcttacatgc ttacactacg tggaagctga acaacattcc ca 232

<210> 12499  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12499

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 taagaatgag aaatcccaaa gagaaaacat ccgattgatt tttcgcttta ttttactaaa 120  
 agggatatttt ttgattatt atattattat ttacctctt ttttgatttc caacgtgggt 180  
 acggcacgac cgaacggctg gaattcattt taaccgaaat taacggatga tacaattcaa 240  
 acgatcagtg gaaatttatt ntatttttag attacgcgag aaatgactta tataaatgac 300  
 taatgcatgt cataaggggg tatagaaagc gaatgatcac gaaaataaaa atacatgaaa 360  
 caaatgtgg accaccacgg gtacatagaa tgaattgaat agctcggttt gaagtactta 420  
 c 421

<210> 12500  
 <211> 581  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 12500

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taacctcgat gcatgcaagc ctgctaattc tggtatacaa catatgcaca cactaagcgt 180  
gatacacatg cgcataaggc gcgaactaca cgcactgagc gaggggggtgt caggctaaac 240  
gcgccctacga atgtctaaaa tccacattta caactattaa tataaaatca atgcaagggg 300  
ggaataccct acacaccacg aaagaacccc ctcgctccagg agattcatta actcactatc 360  
tgtattcaac acctcacata gaaagccctc tatgcgcatg actggctcaa cccttcactc 420  
aaggcatgca taacctaaac aacgaccacc atgtatgacg gacattctac tatttatcaa 480  
agcaaaacca tgctatgcaa atcgtaanat atatctcgat ctaaaattgc caacacatac 540  
ttaatatcc gctacgggct ataatccctg gagaagctac g 581

<210> 12501

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12501

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ggcgcgatct acacgcactg agcgaggggg tgctcgctta agcgcgccta cgaaggccca 120  
aagcccactt caacagctat aaatattgag tcaatccaag ggggaatacg caacacacca 180  
cgaaagaacc ccctctccta ggagtttcat ttactctctc tctttcttct accccttctc 240  
attgtaaagc cctctatggt catgagtggc taaaccctta gttaggggtct ggcagaccta 300  
gaagccaacg caatgtatga tgtactcttc actatttatc aatgcnatac cagcatttc 360  
tctcctatctt acttctctgt gattatctag catactcatc tatatattct 410

<210> 12502

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12502

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 aaatcaccat tgaaagacct tattgaagct caaagatcta gcctccatag aagcttctca 180  
 agcaagcttc catcaccata cttnttatca actttaacac cattntttgg gtcanaccaa 240  
 tagcaacgca gaataatgac tctgttttga tatccaagat atgacaattc caatatctcg 300  
 tcaacaattc cataatagtc cagatcattg tcaccatata tatgtcccct aacacatatc 360  
 ccactattca tgggtggctgt attttttcca tatttcttag tatgaagcct gtccccttaa 420  
 ctattaaaag ata 433

<210> 12503  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12503

agctntatcc tctccaattt gggtagtggc cctagggatt ctaatccctt ttagaggtgg 60  
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 ttatgactca tatgaaggcg acaaccactg ccttgggtgc agaacacaat gtctttcttc 180  
 tatttcggtt ttgtaagtat tttatttggt cttcttcaaa gggtattggt tttgaatata 240  
 ccccccattg cactctactc aaatcggata accctaaagc catatgagtg ctattcttgt 300  
 tttctctcta caaatctatt tttttccttt tagaaagaat aaggactaag cataatcatt 360  
 aatatctatn nttctatggt tgcgactgag caaccaacat caactaaatc acttgatcat 420  
 catgctaa 428

<210> 12504  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12504

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 gttccaagta cttcggattt ggtccgacca tgccctcctg atttccagct gtgaaattgg 120

cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt cacggtttta 180  
aaagctctat agntgggcct atgctttaga gttttctttt tggtaaggct ctgtgtctta 240  
tgtttttgaa ttgttaatac aaggatctct cttcatctgt tcctgagctc taccattct 300  
cattcatttg catgttactt cttgttttga cacgcatatt cgataccagt ccccgatag 360  
actaatacct ggaccggtta ttctctctag cagatatga 399

<210> 12505  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12505

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ctcacagtct ttagatttgg gagccaatcc aatccttgtg tccggactct cagccactta 120  
tgatagccgc cgatgatccc attattgctt cccctaagct ctttgtcctt tcttcacgcc 180  
gcatcccatg ccttgccaac tccttggagt accctcgctg tgtggtcact gaaaccccg 240  
gcatgaaag gcgtgatgct ttcgtctgat ggcactcctc tcatggggta gccaaagtgt 300  
cttatggcga ggacgggatt ataattaata caacccttg tcacatcaag agaacatttg 360  
gacatccttc gcatgaagat agaatcctga ttcttccttc cttctagcaa gggaaccaat 420  
taacagacg 429

<210> 12506  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 12506

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agtaaacgca tgcactaaat aactatatac aatcgctcgt cgtttgctcg aatcttgaat 120  
acatgcatag tattgccatc atcataaagg gggagattga atatgcaata gcctttgatg 180  
tgatgaatat gatcatgatg atgtgttgca attgatgcaa atgggcggtt caagattaaa 240  
tgtcagacaa taactcaaga ttaccacgta caacatcaag atgatcacta gaataatatg 300  
aagggaataa ctatatgcaa tagcaaaggt ttgtccaaat gatgtataat taaacaaaga 360

ttcataaaag tattactctc tggatgata tcaccagaag atgtgaacga tcaccatggt 420  
ccaatacgtc aatactgcg 439

<210> 12507  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 12507

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cttacgccct tctctctctt tcgaatttgc ttggaaaaat tgattccgtg aagaaaatcc 120  
aagccgaggg gcttccgaaa cgcttctgta acgtttccgt gaggaattc tcgaagggtt 180  
tgaccggtct tcgacgttct tcattcagtc ttcaccgttc ttcgatcttc aacgggtgag 240  
tacctcgaac caagcttttc gatacttct atgtaccgtt ggtgggtccac attgtgtatc 300  
gtgtattgtt attctcgtat catttacttt ttatacccca ctttgacgtg ctttaagccat 360  
attatctaag tcattttctt gcttaaccta aaaataaaat atattt 406

<210> 12508  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 12508

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cttactctct ctagaatctc tcacatgcag aagctccttg agaaaatggc caaactccct 120  
ctctaaatct gatttcaggc ttaaattggg ggatttggtc gcgctcgtgc gcttagcgca 180  
actctgggtc gatcagtgca cattaatgaa tatcgactta tcacgtgggt ttctcgcac 240  
aacggatgga ctgaagcgat gcgcttagtg agatgaccct ctgctcagcg aacatgcata 300  
gctcatcc 308

<210> 12509  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12509

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tttttgccctc tgaagaaact tttctaactt agaaactttt cttctcacta accatgatga 120  
tgaataattc aaaatagata tcaatgtact aagatgcaac atacaagata acaaccaata 180  
caaagtgcac tcaagggagt taggcatgta aaagtcaaaa catcttcaag cttttccttg 240  
agcttcaagc tttggccttt atgttggtca ccatgttgct ccctatctc tagcatcttc 300  
catagacaat aatgactag canatcatgg ttactcgctt cttggagtgt gccaaactcaa 360  
tgcaacacag agtggcatgc aattcagtgc acaattctcc caaagatgtc atgaattgga 420  
ttaaactctc atcatct 437

<210> 12510

<211> 349

<212> DNA

<213> Glycine max

<400> 12510

agctttttgt atttgaaaca tgggaccaac tcattgtatt tctaaaagga agtcgtatct 60  
agtcaaggtc ttagagacca tacaagtttc ctaccgattt ctaattatgt gggccattaa 120  
gtctatcata tgctgacaat agccgagaag ttcgtggatc tcttctgggg cggagtaagt 180  
gactgccatc gccttggcct tggctaacaa tcggggaaga tcttgactcc cgtcaagggt 240  
aagaactaac cgatccattc acctggatgc ctcttggtgt aaagagtcta tcaactcttc 300  
tctagcctat ctgtccgata tacttgggcg tacatattcg cgattctat 349

<210> 12511

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12511

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tatattatat atatttaata atcatctaac aatcatttat atcaatcatc ataaatcata 120  
tttgatataa ttntaagaat aattatcata aaaattaata aatctatcat acatgatata 180  
attaaataat aatatataat tattttacac tatcaatata taatctattt tatcatatta 240

tattatgccc ccataatatc tttatactct tttccagcgg gcacacttaa ttctggtttt 300  
 caatagacat gaggatcagt ggacgtgcgg aataagtgtc attcccttac tctcaggaaa 360  
 cagccatata tatcgcatg atccaaacta tcatatctat 400

<210> 12512  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12512

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 ctccagaagc aatatacttc tggaggaatc ttctggaggg cccaagtgtg cctgggtgct 120  
 atttgactc ccatttttac taaatacacc cccctgcctt ttntttggtg attctttntt 180  
 cgtaaaatta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240  
 cggaaccttg cggattacat aatcatcccc tctttgactt acggaatgtt acggaacctc 300  
 actatttggtg caacgatgtc ttcttttgat ttccagtgtg tcacggaacc ttacgggatng 360  
 tgcataata tattcttttg atatccggca cgtcacggaa tttcacaaat ggctaataga 420  
 tgg 423

<210> 12513  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12513

agcttcggta ttccatttcg agcgtctcga tatattacga gactcaattg gacatccgag 60  
 taaaaattta ttgtcgtttg aatttgatca gagcttcaac attcaatttc gagcatctcg 120  
 atatattacg ggactcaatc agacatccga gtaacaagtt attgtcgttn gaatttgctc 180  
 agagcttcta cattcaattt cgagcgtttc gatataattac gggactcaat cggacatccg 240  
 agtaaatagt tattgtcagt tgaatttgct c 271

<210> 12514  
 <211> 409



<212> DNA  
<213> Glycine max

<400> 12514

ttgctttgaa tgttcatcat tgtaacaaac ctttattggt tctgaggttt ggagaaagta 60  
aaattctttg aaagaatcga aatgctggaa gtaaattgac aagggatagg taaattgcag 120  
aatTTaaagg ctcaacgagt tcattcgatc gaatgaacca tttaaaagac aggaattata 180  
taaaacgaaa cgtaaattgc attgcattcg aaatataaag tttacagaat tttaatatgg 240  
gtcacaatca tacattctcc ttgtgtactc gttctctctg cgctgggtac tttgagtgtg 300  
taatgattcg tacaaatgat ttgcgacctc gaaatctgac taaaaactgc tttatataga 360  
cattctaaaa taaactggcc taacgggtcga acactattct aatgcccag 409

<210> 12515  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12515

agcttgcattg atttacatct ccctctttct caagcaaatt cttcttgata tcatcaaaat 60  
cttcatgatt tacaacggca accctcatct gggatacaac cgagcgggctt acccttatgg 120  
attgccgccc aactactcac caccgtcctt gcaagacgat gcggggaata ttgcttctcc 180  
tgtccttgaa agagagcctc ctcaacagcc cgacgaggtc cacgaagacc ctcaagacta 240  
tgctcgaagg gatgtcgagt tctatcccc gattcccgaa gggccgacac ccagcatgtt 300  
gcctcagccc aacatcacga cacaaccaat agttntgtcc atggaaggac tgcccccggc 360  
aactgaagaa aggaggaagc tcgatctcct cgaggagaga ttgagagcag t 411

<210> 12516  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12516

agcttgccct tagttgtcca ggaaggacaa ggcagccgaa ggaactagtt ccgctccgga 60  
gtatgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgagg ccatcaaggg 120

atggtcgttt ctccgggagc gacgcgtcca gctcaggac gacgagtata ctgatttcca 180  
ggaggaaata gctctacgga gttttaaaag attggctaag attttggtta aacataagca 240  
cttagacaat gaaggaaagc tggagttgct gcacatgatg tccaacgtta tgtcaaggaa 300  
taagatcggg ctgcacaatg cacaaggcaa gataaaatgt caaatgaaga attgaagttg 360  
caggatccac gatgtcggat acaatgtcct gacatcctgc ccganaatac tggagttgct 420  
gacaatgcat aagtcaagat a 441

<210> 12517  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12517

agctntgctt ctacacaaat gattaaatgc atganaaaca aactaagata acagaaatta 60  
taattggggtt gcctcccagg aagcacttct ttaacgtcat tagcttggca cttttacctc 120  
actgngtgat cttatgtttt ggttcgtact ttcagaacct cttgacctct taccattacc 180  
tgtaagcaaa cattgtgttt tggagcaggc ttatcttcaa aaaataaatc aaatcaatt 240  
ttatgatctt caaaacctag ctccagcttc ctcttcccca tatcaactat gcagcttgcg 300  
gtcaacatga atggccttcc aaatattaca gggatgccag tatctntaga gatatccatt 360  
accacaaagt ctgccgggaa gataaaatgt tntactctga ccaacacatc ttcaattact 420  
ccatatg 427

<210> 12518  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12518

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accttcatac tcaataattg aatcatctgg ctttttatta gccctgtctt caaaatccat 120  
tgtgtatgac ataccagagc accctccctg tttgacacct attcttaaac ataaatcttg 180  
atttcgttca gacctcatct tattcaagtg cttcagcgca ttatccgtaa gtgaaactgc 240

agggggccaga gaaccagatg ctggtgcagc tganagatat tgaggtgggg gtgagtgaaa 300  
gcaaagatta aaaaagtgct gagtgtggca gaaaaagtat ttcacataac anacaagtat 360  
ataacanaat tcaaaatata ctgtntagct gttgcaatct ggттаатgat attaaaacag 420  
agtgaatgcc aataac 436

<210> 12519  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 12519  
agcttccttg tgaatcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60  
ggtgattttc caccatggag atgcagcgga agataaagga gaagaggtga gaggaggcgc 120  
catccactag ggaataagcc atggaagaag gagtttcacc accaagagag tgtggaagca 180  
aaacttcatg atgaatcaac aatgattcaa aggtgttttg atgataacaa tgatgacaac 240  
aaaagatgat gacaaaagtg atgaacaaaa agtcaagtg aatcaaagaa catccatctc 300  
aagaatcaag attcaagatt caagttcaag aatcaagaag aattcaagac tcaagaagaa 360  
agcctacaaa caaagattca agatctcaag aatcaagatc aagattcaag atctcaagaa 420  
tcaagatcaa gaatcaagac tcaagat 447

<210> 12520  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12520

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gtttgatgct tttcctctaa gtcctctcta acttgctgga tggttgtaat acgggattct 120  
attttgttat ttaatttaac ttgcattctt ttgtattata tttatatcat caatgtctga 180  
tcaatggcat gagctgagca tcattcagga tcttactgac cgtatatcac tctttgtttt 240  
ttaggtcttg gggactgngg agacagagga taactgaagc agcacttgat ttttgtcact 300  
ctttntata ttatggttag tcatatcgac agtctggaga gtgaagtaaa gataatagca 360

ngttagtcat atgttacagg atggctntct ttangaactt ttcanatgat acagtctcac 420  
atggtgtcat g 431

<210> 12521  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12521

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ggctacttgt cagaacttac aatctaactc tgattaggca gagatcatat ttagaccagt 120  
ctgttaaata aataagtcac gcaagacttt tcttttttta acttagttag ttttttcttt 180  
gtacataaaa gacttattca gtttaaaaaa agtcaaattt tgaattataa aatcttttac 240  
ttccaacaaa ttaatctatt ttagaaatac aaataatata gcaattagtt aaaaaaata 300  
cttcatcaat tattaattct ctttttccct actttgtttt ttgtttcttt ntattctttt 360  
ctataaatga ttcttggaag agagccctca acgtaatcca tataggagcc ttcacacacg 420  
ggaaactcac tc 432

<210> 12522  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 12522

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tcaaaagtgc tctatttttt cattctgagg caatttttca cagaaagaag agcacattta 120  
attgtgagga gtcgatgctt cagatggact acttgaggag tcacctgagg atggattcaa 180  
tggtgaacca gctgttagag aaccatttcc accctcactc tcagccacca ctggtatctt 240  
gacagtggct gctctttcca tctctttctc gagttcttcc tctttacgca atgcagtaaa 300  
ctgggtatcc aaggatttgc ccgcagctag ccaggcagat acaatcagca gaagtattcc 360  
tcccaagtat ggggttgaat tagctagtga cccaaaagtc aagatcataa attgctggat 420  
aagggcacct 430

<210> 12523  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 12523

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agcttctgtt ttcaatttcg agcgtctcga tattttacgg ggctctatcc gacatccgag 60
ttaaaggtta ttgtcgtttg atttttctaa gagcttcctt tttcaattac gagcgtctcg 120
atatattacg ggacacaatc ggacacccga gttaaaagtt actgtcgttt gaattttctc 180
agagcttcta ttttcaatta cgagcgtctc gatattattac gggactcaat cggacatccg 240
ggtaaaaagt tattgtcgtt tgaattttct cagagcttat gttttcaatt acgagcgtcc 300
tgatatatta cgggactcaa tcggacatcc gagtcaaaag tttttgtcga ttgaatttgc 360
tcagagcttc tggtttcaat tacgagcgtc ctcatgtatt acctggactt catcggacat 420
ccg 423
```

<210> 12524  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12524

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ccgaagcgac accactacan acgccacatt agtaaggagc aaacattaac atacttnnnc 60
cannnnnaaa tacaaggagc ggagntttga ttgatatcga tngcaangcg aacncaannc 120
nacannggac ccggggagac agtagagncg accggcaggc aggcaagctt ttccatatcc 180
tgacactgaa caaccccaaa ggcgagcagg aggccaccac acgaacgcca ccaccacgca 240
caagacgcaa ccgtcaccta gcgaacagcg aaaaggaaag gcagcaacca gaaaacgcca 300
aaggaaacag taacatacga agacaagcag acaaacaatg gaccaacgga aggataggac 360
caccgaaaga ggaacggacc ggatacgaac gacaacaaga aagacaaggc aggaacagag 420
aaagaaccac cgaccgacac cggacgaggg cccgataaaa gaagcaaaaa gagcggccca 480
aagcaccgca aacggaccag aagaaaaaag acacgcccc aagcaagaa cagcaaccaa 540
cacgaacaac acaaccgggc acgaac 566
```

<210> 12525

<211> 421  
 <212> DNA  
 <213> Glycine max

<400> 12525

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agcgaaaaga atcaaaaagc gaagcagtgt atgtattgaa tcggatccgg gttacaccca 120
tgtcttcgat gatgcaccta tcgcgaaagc gaattatctg ctaatattaa taatttggag 180
ctaaaagtcg acagtttgtg gaaaaacgca atagcaacaa acgccgaaga tgaatcaaac 240
aagcccaaaa ccaaattctg agaaaaattc attcagaccc aagctaagaa cccaattctc 300
aaaatattaa aatagactag aaccacaact gtaaaaaggg gtggtgagag aatcgaactc 360
gcgacctctc gcacccgaag cgagaatcat accactagac cagacaccct atacaaattc 420
t 421
```

<210> 12526  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12526

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tctgcttggtt attaacggaa gaaaagaaac cgaaattgaa caaaataaag atgaaagcca 60
aaaaacaaga aatgaattaa aaagtctcgg atttgaaaac ttaccggttg aagaatgaag 120
aacggacgaa gaacggtaaa gaacggagga aaaccttcac ggatttgctt acggaaacct 180
ctcggaagct ttacggaagc acctcggctt ggattttctt cacagaaaca attttttttt 240
acccaaaaca gctgaaatgc atagccagng gaatcaggca cccttagaac aacccccctt 300
tgcctttnta taggaaaaag ggggaggagg ttgccgccca gctcgcttan gcgagctggg 360
ttgcttcac cttaagcaag aaaatgccta gaaacctcta gaagggccta gatttgaaaa 420
tact 424
```

<210> 12527  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12527

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gagactaaaa caatcgatcg ctaaagtgat aacttcagtc gctaaattga aaattcagtc 120  
gctaaaattg ttagcaatcg aaatgacgac cgaattctct gtgtcgcaaa accctagtct 180  
ctaagtcctt aatcaccaaa ttcttattca ttccgctgca tggttggttg ctattttggt 240  
tgggaccagt tcaacaaccg aaattatcgg tcgctaataa gtaataaaac tttaaataata 300  
acataaatta anataatatt ccgtcactat tgaataatta atttgtaagt aaaatttaag 360  
agaaattaca ttcgatcact aatttggtga ctaagttaa aataaaatgt attaacaaat 420  
ataaattg 428

<210> 12528

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12528

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ttaccctcgg aagcaaaaaa agaatagaag ggaaatttcc aatcaaagaa aaagagaagg 120  
aaaatttcca atgaaagcaa aaaaagaaag gaagggaaat ttccaatcaa agaaaaaaag 180  
aaggaaaatt cccaatcaa agagcgggag aaagcaaaaa gaaaagaaag gaaattccca 240  
atcaaagaa tgggagaaag taaaaaagga agaagaagaa ggaaagaaag cccctgatcg 300  
gngatcgaag ganaaacaga agaaatatgc agagaggtct ttggaccgga caatatctga 360  
acaatacaga attgtcacca aatgaacaaa aaagaaggaa aggaaaccac gacctanaat 420  
ggtcttctcc ct 432

<210> 12529

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12529

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taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120  
gcttgtgtgg tgggtggcca gctgtgaaat ttgagttata tatgggatat ggcctctggt 180  
aatcgattac caaggggtggg taatcgatta caaggcttaa aaatgaagac aggagactaa 240  
gatggtctct ggtaatcgat taccacggng tgtaatcgat taccagtctt ganaacgagg 300  
tcaggaagct atgagggctt ctggtaatcg attaccaagg ggggtgtaatc gattaccagg 360  
cttataaatg aatgtagcaa gttgtggagg cccctgttaa ccgattacca gtctgtgtaa 420  
tcgattaca 429

<210> 12530  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12530

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tttattgtca tgtaactgtc ttaagtaagg gatcaaataa attttgtttag ctgaaattct 120  
atggttgagga caccaacagg gaattggcag ggaagattgg agttgtgata ttgggcatag 180  
gctagcaatg aaaagtgttg caggggcaag atgggtggtga ttcaaggcaa agagaatgaa 240  
aaaatctgtt atggttcgcg acaagggtggc gcttatggtt agcaagaaac aattgtttct 300  
ttatagggaa ggaggttaagt gttgagaatg ttgttgatag gaataagggtt gtttcctgac 360  
aatgggtttt tgtataggaa tgtcaccaac tcgattntat tctcctcatg gtgcacgaat 420  
tcgttcttgt gcgcatgat 439

<210> 12531  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12531

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aacatatcga gacactcgaa attgactaca gaagctctga gcaaattcaa atgataataa 120  
gtattgactt ggattttcga ttgaatcccg taatatatcg agatggtcga agttgaaaat 180



ggaagctcat aaaaaatgaa aacaataata attgttaact ctgatgtccg attgagtccc 240  
gtaatatatc gagacgctgg taatggaaaa cagaagctca tagaaaatgc aaatcacaat 300  
aacttttaac tcggatgacc gattaagtcc tgtgacatcc tggaaatttc taaccggaa 360  
ttttgtaaatt ggtgcattnt gaatggctat atatataagt attattcagt ggatgtatat 420  
aagtatatat 430

<210> 12532  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12532

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attagcaact tccatttgcc catcggttta tgggtgacaa gtggttgaaa ataacaattt 120  
agtgcccaac ttgccccaca tagtcctcca aaaatgactt aggaacttaa gtccctatca 180  
ctaacaatgc tccttggaat accatggagt ctcaaatct ccttgaaaaa caaatcagcc 240  
acatgggaag catcatcaac tntnttacct ggaataaaat aagccatttt agaaaaccta 300  
tcatacgacc acaaaatgga gtctctacca ctgcttgttt ttggcagccc tataacaaaa 360  
tccatggata aatcaatcca nggatactcc ggaattggca atggagtata caatccatg 419

<210> 12533  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 12533

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atctctcgag tgcttccgtt gtttaatttc aagcgtctcg atattttatg tcttcaaate 120  
agacatcgga gcgaaatgtt atgaccattc gaatttgccg agagcttccg ttattcaatt 180  
tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gagtgaatg ttatgaccat 240  
tcgaatgtgt cgagagcttc cgttgttcaa tttcgagcgt ctagatgagt tatgtcaccg 300  
aatcgacat ccgtgtaaaa agttatgacc attcggcttt gtcgagagct tccgatgttc 360  
aatttcagc gtctcgatat atta 384

<210> 12534  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12534

agctttatag tttactgtca ctcacgtgcc catacgtaat agaaccaaat atcttcaaat 60  
 cagaaatagt tacacgttat aaccagggtcg taccttgtgt agaatcttca tgtcaattgc 120  
 atggagatct gtttgctagg tatgaagtta tatggctcat ctttgcccaa aatgatgtcg 180  
 aaaatacaac attaattcac atacatcggtg caccctacaa cagaagtgtt ctagtcatct 240  
 actttccaag tccattttta ttgtaatgtc ccacattcaa ataaatgatg cctcataatt 300  
 aacatttcta tagtactcct canaatctta atttcaaaat gttcccaaca ttgtcagttc 360  
 tcaatctctt gattaatc 378

<210> 12535  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12535

agctttaact ctgattattg agacactcat aagagctcaa gcttaagtcc ccattactac 60  
 acatccattc ctagacctgt gatagatgtg ggattgtgca tgggctggga gaatgcactg 120  
 ttaatgatga gataacctaca gccatgaatg agattaactt tgtttgggga agcaactatt 180  
 cttataatca gtacccaat aatttcaatc aacgataggg cttcaagaag aatcacagaa 240  
 tgtttagggtc ttaacctatg caaaattaga ggcctacaaa agaggagaca acccactctt 300  
 caagaaatca tgcttcaata tatgaccan aatgatcaaa gaatgaagta ggttgagtcc 360  
 taattgacca acatacaatc tctcttgtca caaagacaac t 401

<210> 12536  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12536

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 gggattattg tgtatttga gtgatgcaac tttcaaaatg gaaaagaagg tcaagggaaa 120  
 tggtttcata tatttgaag gtacttgggt tggatgatgt ggaaaagtga ctataatcaa 180  
 tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240  
 tagaactgcc aacaatgggg gtttatggtg tattttanga gacttcaata gcattagaag 300  
 gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360  
 cataatagga ttgttgactt ggatgttgag gatg 394

<210> 12537

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12537

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 ttggggcaaa agatgaatcg agtcacatca ctgcttcgtc tactgcaaaa catatttagg 120  
 attattgatg tccttggtac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180  
 aaaatctaaa ttgattcaac cccatatact gcgtaaaaat tcgcaatact tcgactgtac 240  
 atcattcgca tgcattccatg cttttcattg gttgcattgc tcattgcatt ctttccttga 300  
 aaaataaaaat aaaataaaaat gaacttatca aanagaaaag gaaacgcttt acggcgccct 360  
 taccgaactc gtgctagagc tagagtaat 389

<210> 12538

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12538

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 agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
 gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180

ottgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240  
 acacaaaatc ctgggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
 aaccgagctn tgacaacatc aactaattcc atgacattca caatattaag atcttttctt 360  
 tgcaatatat ttgaaagctc gtttgtgata ccaacaact ntaacattaa cctcaaaata 420  
 aaagc 425

<210> 12539  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12539

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 gttaaaatgg taaaaatgtg tttaaagaga ttaagatatg aaagtcaggt taccaggggt 120  
 tcaggatcat ccagcatttc ctgagtaagt tgaagagtcc agatgtgctt tctggatgaa 180  
 tgtctctgcc tgccgcaagt ttgccgctcc agtggtggtg tgaaatgtat gtcaaaaaca 240  
 gagtgatggg cacatgcaaa aaaattgatg ttggttgact cgtagattnt caaatctttc 300  
 ctgaagtttt ggagtcata tgctaaatac actctgtctt tgtgttgtct gactcgtatt 360  
 tcatagatgg ctccattgta tctgagatga acaaactcan gatagtgtgg tgcccattgt 420  
 gtatgataga acactagaag ttg 443

<210> 12540  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12540

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 ggttttcttc aagccacact tccaaaagca gtgtaggggc ttttgtgggt tcgagcaaag 120  
 ggtttctggc agtattgaaa acaatgtggg acaatgtggg tgctcagaggga gcggtttccg 180  
 atagatttca ngcaggagga gaaagagaag agtgactgca aggttttcga gcgcgcgggt 240  
 tatgaaatgc caatgtttta acttataaac ataacaacat cggttggtta aggataaccg 300

atgttaactg aatatagtta acaaccgatt tggaaaaatt gatgttaaca tcatataggt 360  
 tacatcggtt tttcaaaaaa tcgatgttaa gatcaactcc ttaacatcag ttntgagaaa 420  
 actgatgtta actctatc 438

<210> 12541  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12541

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 aataatctta agagggatag gcttagaata cagaagaaac aacaacaatc aatttaacaa 120  
 tgttctttan acatgcaaga cacaattgat tgcaacaaaa taaataagat aagggaagag 180  
 agaatgcaaa cacagtnta tattgggttcg gccacaacc gtgcctacgt ccagtactca 240  
 agcaaccac ttgagagttc cactaacttg taaattcctt ttacaagttc taaacacaca 300  
 aggacaacc ttcttttggtg tttagagatt cntacaaca agagactcac agtctcttaa 360  
 ccaatctcat tgaataagaa gaatggaaga agaattctct cttcaagaga agaattattac 420  
 aatgaagatc atgt 434

<210> 12542  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12542

agcttactct gtcataattcc ttgattacgt catgcatctc tccatggcat cgtaaatagg 60  
 catatcattc ctgcatcata tttgtgcatt gcattttcat aaatcactgc attatcatac 120  
 gccttcattt agcatgcttt tgttcggcca actacatata ttctacttcc atcattcgca 180  
 tgtcatgttc actcgtgcat gatcctggca tcttcctctg cnnaaaaaaa aaaaaaaaaa 240  
 aaaaccccng aacaaaaaga aagtcacacc acattcttag ttacatgtgt tgggtaccat 300  
 gatgatggct ataaaccaac catgttggga ttatacacca atttatcaag aaaaaaatga 360  
 ttgaaaatca tgtgaaaggg ctacctaatg catggttaac taggaaaatg gtggtcctag 420

ggcatctcat gtcaatctca taat 444

<210> 12543  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12543

ttatcttatg tttctaacat ctacaataga cctcctcaac ctcagtagca aaatcagcca 60  
caacagaata attatgacct ttccagcaac aggtacaatc ccgagtggag gaatcatccc 120  
aaccttaaatt ggttgaatcc ttaacaacag caacaacaac aaccttattt taaaaatgat 180  
gttggcctaa gcagaccata cgctcctcca ccaatctagc agcaacaaca acaacagctt 240  
cagaaacaac aaacagttga ggctccttcg caccttcctt tgaagaactt gngacgcaca 300  
tgactatgca aaacatgcag tttcaacaag agaccagagc ctacattcag agctttacta 360  
atcagatggg acaattggct acac 384

<210> 12544  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12544

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cgtcgaagaa cgttgaaac ccttgcgaaa ttcttcacgg aaaacggtac ggaaacgttt 120  
cggaagcgcc tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaaag 180  
agagagaagt gccaaagggg ctgaaccctt ttcttcttca ctctctcccc tatttatagc 240  
aaaatagggg aggtggttgc cgcccagctc gcccaggcga gctcagctcg cccaggcgag 300  
ccaggttgct tctccagaa gcaaccgctt tctggaggaa tattctggag ggcccaagtg 360  
ggcctgggtg ctatntgcac caccattttt actaagtaca cc 402

<210> 12545  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12545

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tttctaagct ccccttggtg tatctttggc tttagagcttt gtccctccctt gcatagttac 120
tataatttcc aagcaaacia gacaagaatt agtcatcagg attaaagcta aggaaaacia 180
aaaagagagt gagaaggggt aggtggccgc aaagagaaga gatgagagat aggcaagaag 240
agttgtgcaa catataatga aaccctatag tgattagaat agcttttata cttaggcatt 300
tcttatgtta tattgatata atgggccggg ttccgggtact tatggataaa aaaaattaaa 360
ctaagcccaa ctagatgtac caattcctta ctctntcctt taatctaact acccgctcat 420
ctaatataga cgggctaca 439

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<210> 12546  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 12546

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tttggaatga gattcataat gaagaaatca actacaattt tgcataagcc aaagggttaa 120
gcagagagaa tgttccaaaa cagtagtcaa atgctaaaat ctccctaggt cttcgcaagc 180
tcacaagatt ccttcatcaa cgtctaaata atgtatccac taaaaaggaa accgtcaact 240
agtttctttc cttccaaaag cgtacgtgtg caatatatat ctgatagtga cacaattggg 300
gatgtttcac ggcggctgtg cgaccacct ttctcaatac aactccacac cattcaaata 360
tatgcatatg caagacaaaa atgaaagtag atacgttaca attaacttat catatcctca 420
gatactacc 429

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<210> 12547  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12547

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ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctttcc ctattttatt 120  
 ccttcaattt cgtgctcccc ccttctctct tctttttcct ccattaaagc atcctcttca 180  
 agctttcttat ccaaggcaat tcttggtggt gaagctcctt cttccttggc ttattcccta 240  
 gtggatggta cctccccctc cctcttctcc tttgccttcc gctgcatctc catggtgaaa 300  
 aatcaccatt gaaggaccta attggagctc anagatccag cctccataga atcttcacaa 360  
 gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttannac 420  
 ctccattaat tt 432

<210> 12548  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12548

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 gggattattg tgtatttgga gtgatgcaac tttcaaaatg gaaaagaagg tcaagggaaa 120  
 tggtttcata tatttggaag gtacttgggt tggatgatgtt ggaaaagtga ctataatcaa 180  
 tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240  
 tagaactgcc aacaatgggg gtttatgggt tattttaaga gacttcaata gcattagaag 300  
 gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360  
 caataattgg attgttgact tggatgttga ggat 394

<210> 12549  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12549

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 atatatcgag acgctcgaaa ttgaatgttg aaactctgag ctgattcaaa cgacaataac 120  
 tttntactcg gatgtccgat tcagtgaagt aatatatcga gacgctcgaa attgaatgtt 180  
 gaacctctga gcccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240



aaatatatcg agacggtcga aattgaatgt tgaacctctg aggcaattca aacgacaata 300  
 actntttact cggatgtctg aatgagtgccc gtaatatatc gagacgctcg aaattgaatg 360  
 ttgaagctat gagccaattc aaacgacaat aactntntac tcggatgtct gagtgagtac 420  
 cgtattatat tg 432

<210> 12550  
 <211> 659  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12550

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 naaaaaaann nnccgagggg cctgattcat tcgaaaacac tcaattaana tatactctac 120  
 aatactcant nttgttatta tatgttaggt agacattaca ctattatatt ttatatattc 180  
 tacacctcac caatacgctg cggactgatc tatgagctaa ctaactactc acgttattac 240  
 aataacgatc aatatgcgtc gtcacctaata acaacatcac aatacctaac gacggacact 300  
 gcattcgtcg acgaacatct ccgcatactc gaatatctca ctagtactga ctgtttcaga 360  
 gctctatcat ctatacatat catgtcacta cgactaataa ccgtataccc actacactct 420  
 acctacactt tgacctcacg ctctcatcat ctaactcaac cacgtctcat gaatcttctg 480  
 ctatgcgatc atcatatcac acactatccg atatacagcg acaaataaca ctcacatata 540  
 acactcatac actactacat acagcttaag tacatcttcc gtgggttcta actctcactc 600  
 cgtcccataa tgtacctatg tcctcaatat ccatatcgac caagttctct acaacatcg 659

<210> 12551  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 12551

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 gacacaaaca aagaaccaag gcctaaaaaa acgaaagcag cgcttttcca ccggcggaac 120  
 agggcggaag aacgaaccaa gcacaacgaa gaaagaacaa taacgacacc aggagaagca 180  
 ggacaacaga agacgcccga ccagacacac cccaaaagca gagcaacaca gacaccacca 240

66161301.430

acgaacagac cgaagaagag aaaaacgcgg aagggaccag atcaccccgga agaagatgga 300  
cgacaaagag acaggcaaga accaaagagg aaccaccccc acaccggagc aacaaccgcc 360  
ccagggacac aacccc 376

<210> 12552  
<211> 288  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12552

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ctcgccatct tgggactcta acgtagacct tgactctccg gtctcgatgc cacccttact 180  
ttttactgcc agcggtgatt ccttggacaa ttcacgaata taatttcttc atatctttat 240  
cgccatggga atcgttccat actcacactt agcctttatg gcttctta 288

<210> 12553  
<211> 641  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12553

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tccannatac tnatacttac gagatcgcca gnetataaca cactattaga gcctccatga 180  
tacacttgtc tatagtacac tcatcacagg ctccattgag cgtggccctt tcttcatatc 240  
taaaggacct gcgtcgcggg agaagcaaata atataaatac acgagactcg actcacaata 300  
ccaagcggtta gggatggatg gcttatecta acatagaata acacaaaatc acggagcacg 360  
agaaacagag gcggatccga agcgcaattc tctcagtcac cacgtaacgc aacgcaccac 420  
acgcacaaag acacgacgac agaagccaca cagcctccac gcaaagcgca cgacaccac 480  
cactagatcc ctgcgatcaa cacatgaccc aactctacg cccaccacga gcacacgtta 540  
ccgcacacac gccaccatca tagtccacgc ggacacgcac aacatcgacg acacactgag 600

acgaccaaaa cacacacca aacacccata cacaattacc c

641

<210> 12554  
<211> 525  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12554

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atcgccaaca cngaccggac cggagcaaag agacgcagct gaagaatttc tcattaaccg 120  
cacaaagaac ggggcccaacg agtgtacaca ccgaccgcaa cccccacacc ggacgacagg 180  
acacagcgcg caccaagaca cagcagtact catatagcgg acgcactcgc aagacgaaat 240  
atcagcgagc gcaacgagcc gccgcaagca tgaaaccgaa aacaacgagc caagaactcg 300  
atgacccac acaataagca gccatgaagc aggtgtacct cgggacagcc aacgtctaca 360  
caggataaag aggaaaggcg ggttgagca caccgtcacc aaccatctct attctaaaaa 420  
cgacaacagg aaagcccacg ggcactacct tagaccaaca acgaggaacc gtcgccggca 480  
ggagaacatc ctcggggaga ggccgcccga cccgacaaaa ccgcg 525

<210> 12555  
<211> 596  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12555

ccaccaacac cacaaacacg atagcgaatg tgaacgataa acggaacacc accancanat 60  
aacnaaaagg gagnntttga atcgatgcna ctgcgaaaca canacnnaaa anacgcggaa 120  
accaaagcaa gggaaacacc accacaccaa gttgcttatt ttaagggaca agacctgatg 180  
gaggcgtaat gaacagaccc aaatcgaagc agcaccacaa agaccaaagg acgaacatcc 240  
gcacccgtga aacaaccgaa agagaccac actcgaagac cacgatcagc cgggacggcg 300  
agatgcgaca caccagacac gcacaaatgc ggacacgaag gagacaggag atccaaccga 360  
cgcccacgca agccaaacca taaagccaga agctcgaggt catgggaaca gcacaagaaa 420  
ccccaacatg cacaggtgcg gcgagaatcg aacgaagaag gaactacact ggcaatccat 480

tgcggcgggcg aacacgaaaa ccacgaaagg acacgaggag cccgagagga caatacgacg 540  
 caatcaccac gcaacagaat cgaacgctac gatgacacac agtcacaacg aagacg 596

<210> 12556  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12556

agcttctcga tatattatgc tcctgaatca gacttccggt tcanaagtta tgaccatatg 60  
 aatttctcca ctgtattccg tgtcacaagt gatgaccatt tgaatttctc gatagcattc 120  
 gttgttcaat ttcgagcgtc tcgatatatt atgcgcctga atcggacttc cgtgtgacaa 180  
 gttatgacca tttgaatttg tcgagagcat ccgttggttag aattcgagcg tctcnatata 240  
 ttatgcgcct gaatcagaca tccgtgtgac aagttatggc catatgaatn tctcgagagc 300  
 atatcgttgt caatttcaag cgtctctata tagtctg 337

<210> 12557  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12557

cccccatacc acccaaggat tgaagaaaaa cacaaaaaaa nnnaacgggg tatctgcatc 60  
 cacnaannan cacgaaagat gggaaacaac ccgcggtctt ttcaagaaac cagggggaag 120  
 aaccgagaca agcacaacgc acagaaaaag cacagcgaag aagaaatacg gaaccaaacy 180  
 gcagacagag gaaaaacgca aaacacgaag aaacgagcac aggacaacaa tcaaacaac 240  
 cggagcggcc cacaaccca ccaccagcaa gaacaagaaa ggacaagggc cccggacgca 300  
 agcaaagacc gaaagagcga acaaaaaaaaa acagacaacc aagcacccca agacagccc 359

<210> 12558  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12558

tgaggtagtg tataatggtg aaacttcctg cttttattcg ttgaccacag agtggtaoct 60  
ggagatatgt ctcgaggtc atgagacctt gtggacgtac tgtggtgtgc tattgtccat 120  
aaccaagctt gtcccatatc gaccaagccg gaatattcgt cagtggaacc tgtgattctt 180  
atcaggcgac tttgctgtct cagatagagg tactaacact agcagggggt tgggggctgc 240  
ccctgaaatt gaggaatatg gtgggcttgt gattatacca agtgggaatc gatatcaagt 300  
tcaatacaat acagacgcta tatggctctg gtcacgatac cacggcgacg aactcataac 360  
tatgcttgac aactacgtct agaaactagt gcaaactctt ggtaatatct atactcatgc 420  
gcgn 424

<210> 12559

<211> 559

<212> DNA

<213> Glycine max

<400> 12559

gagagcaatt ttgaatcatg tctaaagcga tctatgaatc tgaaattgat gatagtgtgg 60  
catacagtca cataaggcta tgtagtgagc ggctgttcga ttgtgtacaa gcaggattgc 120  
acgtccagaa tatgctgtctg aaccaactat gccttgatgg acacctacca gtgagatcac 180  
atgcacacac agagcccatt gactcctgtc tgctcgcacc ggatgctcat acagacaaca 240  
aagcttcctc tatatctatg catgacatcg ttgaatgagc acgtattgcc acaccaccaa 300  
caccacatgc actatgcttt agctctgaca caacaccacc cgagaatgtg caatgctcac 360  
tcttacatcc cgcgacaatg atcttgctgc tcgtcaatga ccgacggaca gactacaaac 420  
atatccgtga gtgagtagtc atgtgcataa tggatgatga tgcacgagc gcagacacca 480  
aactaaata tctccgttgt tacatagcta gcactcactg atattgtgtg tacagccgaa 540  
tacagtggac tattcttcg 559

<210> 12560

<211> 795

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12560

cacaccgcat gctctngcan ncnttanacc actcaccggc tcgngcacga gagaaaaatn 60  
taagtagent cgcgcaaaac tcgcnnnnn accccnnnna aaagagagcg gcgtggaaga 120  
ccctccgata gnancnanc ncnnanannn nannnaanac cccancgagn acacgccaac 180  
acacnngcgc cggcaacacn agacaagcan cacanacaat tatattttat agnacgcnac 240  
aacgactaga acagtantca gtgaggcgcg cgcacagcac gaaacactat cactatgcac 300  
aaaccaatgc gacaatacag agacatacgc gtgcagaccg acacacacaa cggaccacag 360  
actgaacacg agcatcacgc acaacaggta gcagcagaac agagacacca ccacagacga 420  
gaanagccac tcgcgtgcg aacatacaca caatacagag aagacacgcg taacaccgat 480  
aatgagcgca acgaacaatc aacgtacacc acacanacac atacacaaca caacatgcac 540  
acgaacggaa cagaacaaca gcaagaagca cgatgacgcg gaacgcgagc gaacgcgcgc 600  
caccgctgag agacgccaca atatctacaa gggagacaaa acgcagacag tcatacgaaa 660  
ccaccgcacg acacacacta ccgaaggac aacgaaagca cgacacacat ccacagcccg 720  
catgacgatc gcgcgcgacg caagaacgcg acacacacat gcaagacgaa cacaccgacg 780  
acgaccgcca caacg 795

<210> 12561  
<211> 445  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12561

cacccccgac ctccgtcatt caatagaata caatngagac taccgagcca aactaaaann 60  
anaagagggt gatcatgcat gcaanaccan aaaacccaaa ccaaggacac gacacaaaga 120  
aaagcatttt tatagaacaa acacaccaga gcggcgcgca aagacacaac accccgaaca 180  
caaagcaaag cccaagcata acaccgaagg cacagcgaaa agccaaggaa agacgacact 240  
aaaggaagaa caaaagcaac caacagaaaa cgaaagaacg acaaagaaac caaaacgcaa 300  
gacaaaaaca aactaacaac cccacggaaa aagccgcaaa acaaggaaac aaaatcaaaa 360  
gaatgcagca aaagaacaca caacacacga ccacaaaaga cgaaacgcaa ccaccaaag 420  
caaaaaagac aagcaaaaaa accac 445

<210> 12562  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12562

agc<sup>1</sup>nt<sup>1</sup>tt<sup>1</sup>cgc<sup>1</sup> att<sup>1</sup>gct<sup>1</sup>tact<sup>1</sup> g<sup>1</sup>t<sup>1</sup>aaa<sup>1</sup>at<sup>1</sup>cta<sup>1</sup> gg<sup>1</sup>ac<sup>1</sup>ct<sup>1</sup>accc<sup>1</sup> tt<sup>1</sup>gg<sup>1</sup>taga<sup>1</sup>aag<sup>1</sup> tct<sup>1</sup>ccacaga<sup>1</sup> 60  
 gg<sup>1</sup>ccatt<sup>1</sup>gcc<sup>1</sup> tcc<sup>1</sup>ctc<sup>1</sup>gccc<sup>1</sup> agt<sup>1</sup>attatga<sup>1</sup> tcag<sup>1</sup>tcgtt<sup>1</sup>g aggt<sup>1</sup>gcttca<sup>1</sup> cct<sup>1</sup>ttggcga<sup>1</sup> 120  
 ctt<sup>1</sup>ccagcta<sup>1</sup> tcac<sup>1</sup>ccatg<sup>1</sup>g tgg<sup>1</sup>aagaatt<sup>1</sup> tga<sup>1</sup>agagatc<sup>1</sup> ctag<sup>1</sup>gatgtc<sup>1</sup> ctct<sup>1</sup>acgggg<sup>1</sup> 180  
 aagg<sup>1</sup>acacca<sup>1</sup> tac<sup>1</sup>ctcttct<sup>1</sup> cagg<sup>1</sup>gttcta<sup>1</sup> tcc<sup>1</sup>ctaatta<sup>1</sup> gct<sup>1</sup>agaattt<sup>1</sup> cta<sup>1</sup>agatagt<sup>1</sup> 240  
 ccaa<sup>1</sup>atctct<sup>1</sup> gcg<sup>1</sup>caggaat<sup>1</sup> tag<sup>1</sup>accacat<sup>1</sup> acag<sup>1</sup>caagtc<sup>1</sup> gtaa<sup>1</sup>atgggg<sup>1</sup> tggt<sup>1</sup>tggaat<sup>1</sup> 300  
 acc<sup>1</sup>gagaaaa<sup>1</sup> tact<sup>1</sup>tgagg<sup>1</sup>g acaa<sup>1</sup>agcaag<sup>1</sup> aat<sup>1</sup>cttggca<sup>1</sup> cgta<sup>1</sup>aaggcg<sup>1</sup> aat<sup>1</sup>gggcccc<sup>1</sup> 360  
 gtt<sup>1</sup>catagac<sup>1</sup> att<sup>1</sup>ctcgcgc<sup>1</sup> tgt<sup>1</sup>tgatctt<sup>1</sup> cgg<sup>1</sup>aggaagt<sup>1</sup> ctct<sup>1</sup>ttccan<sup>1</sup> atgt<sup>1</sup>ggat<sup>1</sup> 418

<210> 12563  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12563

ag<sup>1</sup>ctcgc<sup>1</sup>cca<sup>1</sup> gg<sup>1</sup>cga<sup>1</sup>gcaag<sup>1</sup> gtt<sup>1</sup>gcttct<sup>1</sup> ccaga<sup>1</sup>agcaa<sup>1</sup> ctgt<sup>1</sup>cttctg<sup>1</sup> gag<sup>1</sup>gaatctt<sup>1</sup> 60  
 ct<sup>1</sup>ggagg<sup>1</sup>gcc<sup>1</sup> caag<sup>1</sup>tgggtc<sup>1</sup> ttatt<sup>1</sup>gctat<sup>1</sup> ntac<sup>1</sup>accctt<sup>1</sup> tct<sup>1</sup>ntactaa<sup>1</sup> atgc<sup>1</sup>accccc<sup>1</sup> 120  
 ctt<sup>1</sup>ttattgt<sup>1</sup> ttt<sup>1</sup>ggt<sup>1</sup>aatt<sup>1</sup> ctt<sup>1</sup>tttccgt<sup>1</sup> aac<sup>1</sup>gttacga<sup>1</sup> aact<sup>1</sup>ttacaa<sup>1</sup> att<sup>1</sup>tcgtaac<sup>1</sup> 180  
 gat<sup>1</sup>acttaat<sup>1</sup> ttc<sup>1</sup>cttccgc<sup>1</sup> aagg<sup>1</sup>ttacga<sup>1</sup> atc<sup>1</sup>cttacgg<sup>1</sup> att<sup>1</sup>atgtatt<sup>1</sup> tact<sup>1</sup>ctttnt<sup>1</sup> 240  
 tag<sup>1</sup>ctttcga<sup>1</sup> aga<sup>1</sup>agttatg<sup>1</sup> gaa<sup>1</sup>actcacg<sup>1</sup> gatt<sup>1</sup>gcgc<sup>1</sup>at aaata<sup>1</sup>acctct<sup>1</sup> ttt<sup>1</sup>cga<sup>1</sup>cttn<sup>1</sup> 300  
 cgcc<sup>1</sup>atatta<sup>1</sup> cgga<sup>1</sup>atttca<sup>1</sup> cgg<sup>1</sup>atcgcgc<sup>1</sup> aag<sup>1</sup>cctgctg<sup>1</sup> tct<sup>1</sup>tttgagt<sup>1</sup> tct<sup>1</sup>gagacgt<sup>1</sup> 360  
 atc<sup>1</sup>acgactt<sup>1</sup> catt<sup>1</sup>tattgt<sup>1</sup> gcaac<sup>1</sup> 385

<210> 12564  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12564

agcttcttcc tttatattct ctgcaacaac ataaaagnnt gctagtgtcg ggagaataat 60  
 aaatacataa gaatacacgt taggaaagaa ggtcttnaca tgaaagagat gtgaatagat 120  
 tttggaatct attcgtcata cagagttgta tattggaaat acaaattact aaggagaatg 180  
 tataaacaca aaggataatg gaaataacaa tagccttaca agtatgctgt actaacagta 240  
 ctcatacctt taatacacat catnttcaga gtagtagcta acat 284

<210> 12565  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12565

gctaataaat ctatatatgg ttaaacacag cccttgtcag tggttccttt tttttcatgg 60  
 gnataattct ttatgtgggt gtaatgataa ccccatggat caatgcatat accacaaggt 120  
 cagtaggagt aaaatatgtt gtcttggttt atatgtagat gatattttac ttgtagtcaa 180  
 tgatcgggggt ttgctacatg aggtgaaaca atttctctct aagaattttg acatgaagga 240  
 tatangtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgagggtat 300  
 tttgggtcta tcacaagaca cctatatataa caaaattcta gagagatatc atatgaaaga 360  
 ttgttcacca agtgttgcta tcattgtgaa gggtgatagg tttagtttga actaatgac 420  
 aaagaatgac tctgagaggg acgagatgaa acatattcat tatgcttcaa ttgtcgacag 480  
 cctca 485

<210> 12566  
 <211> 731  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12566

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 acncagagt acatttgtga cacactacta catcgacnaa tctagctcgt actcgtggat 120  
 tctctagagt caaacctgca agccatgcaa gacaacttaa ctattattct tgtatcacta 180  
 tctgaccaca cacaatacag ctaacgaggt ggtatgtatg cgcgagtcta cattagcgag 240



actatactcg taatgcctct aagctatcta tagatctact ctctacacag gacatacctc 300  
 ttaaacacaa cacacagata ccttacacaa ggtgtaacgc ctgacataca tgtgaggcta 360  
 acacagtcac acagaaggta ccttctcgac tacatatcat tactgacgag tatcggcgcc 420  
 acgctatcat ctgacatacg atnatctgga ccgagacaat ccaacttcta taggatacgc 480  
 atgctgcccc cggaacaacca accgctgtcg gagagacgag agctacgagc tctaccacac 540  
 agtacattcg gatgtaatga cactgactga ccacacggac agacgactac tcgctcaatg 600  
 catatacatc tcacgccaan atgcgaacca cacactgcac acagtgcgat gacgatgcat 660  
 agtaccatat acagagagga caatacagat gaattcgtgt acangcgctn gtagagcgca 720  
 caataccacc a 731

<210> 12567  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12567

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 gatcgtgcat cctacaccta aaatcacng gctgggggca aacggtctat aactacataa 120  
 ttcagctctt gtttattnat gacctcaaag aggaagctgt gtgctaagag cggaaatata 180  
 tagcgcatte gcccaaaaac cacaagatat ggagagaaaa taggacaaac aaagaggaac 240  
 cgcacctggt gcgatgtagg acgtacgata catgacccac agggatagat atgctgagat 300  
 ccacgaccgt ggccgaaaaa gaaagtcatt agacactgca acaaatagaa ccggcctcgg 360  
 aacggcgccg tttcactacg tcacgaaaca cggcgtaagt cgaacagaga gaaagggttct 420  
 ataggagttg ttaacacaca tacggctacc atacgccaac cgaacgaaga taattggtgt 480  
 tacagggaaa tacatcctca cacgtcatga agcgaagtct catgacaggc tcccaccggg 540  
 tcccatcatt gacagactaa acgccc 566

<210> 12568  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 12568

agctcttatt ttctttgatg aagatgaatc catggccacc tcatggactc ctctaaggac 60  
aatagcatca tttcttgacac tgaattgttg ggagttagaa gccatcttct caatcaaatt 120  
cctaacctca gcatgagtca taccaccaag ggctccacca ctggcagcat caatcatact 180  
cctctccatg ttgctaagtc cctcatagaa atattgaaga aggagttgct caaaaatctg 240  
gtgatgaggg caactcgacac acaatttctt gaatctccac tatgttgccct gatgcctgaa 300  
atgtcttttc tgatggt 317

<210> 12569

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12569

cgtttctaca atctnccctt tntggatgat gacaaccctg atatcaagat acacatacac 60  
atnttnttcc tagtcgatca ctacttaat tctccatatt ctcccccttt gtttttgagt 120  
ttaagcttca cttgaaatta agttatttaa ttatgtgagt tcttgattta attcctattn 180  
tctttcccc tttggcagca acaaaaagcc aaagttcgta acaattataa aacatacata 240  
aatgactaat catacacaag acattttattg aataatctaa accaatcatg aagcaaaaac 300  
atgaataacc catattaata tataaaccac atagtcatat aacataattc ataaaaactt 360  
agtcatacta agcaaatagt ataagaagta ctagatgttc anatttcata ataatatagg 420  
ccaatacatg actagaaatc tacagtctaa taatattaca cataatagac atctatgatg 480  
atgg 484

<210> 12570

<211> 275

<212> DNA

<213> Glycine max

<400> 12570

cttataatta gttagggggt tctctctgta ttgagctgac taaacacacc tagttgggga 60  
tttctaataga acagctgatg taaatactta atatctaatt gattatgttt tctatgttca 120  
atgcttcctt caatgcttaa tgattggatg cttattggct gatcatccat ttgtgtgcat 180

agttaggcga ctttagcatt gggaaatgta ctgtagcctt agaactttat tgaagcagga 240  
tcgaaactta gtcatacaag agtgatctgc ggatt 275

<210> 12571  
<211> 371  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12571

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caaattgagc ttccataact atcatgacat gtacatgaaa atcgaggatt tcacatcacg 120  
atatttcatg aaacttttat tatcaaaata attaccatt tgttgaacat atactataat 180  
tcaaagacta acatgcacag tcgtacactc acacagaatt gaccacaat attaaactat 240  
atacccaacg aaactaaca cattaacaca ttaacacatc taacaaatta acacacaccg 300  
catatctagc agaaccacag aacactgccc gcccatactt aaacaacaca ttgtcctcaa 360  
tgtagcacia t 371

<210> 12572  
<211> 110  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12572

agetnggtcc tcaatggctt tatgaagact ctncacaaat ctaaaggtag atctgggac 60  
tctatcagag actatactag aaggaacacc gtgtagtcta actatctcac 110

<210> 12573  
<211> 485  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12573

tggtgtggagc ttcaatggag aatgaagaag aagagaatga caacgtgttg gagagagagg 60  
gctgtctgaa atttctgtct tgctaagtga ggagagagat aagctttttg gtcttaaata 120

aaaggggttc cttnttttct attattntat tcaagctctg ccacatgtcc cgatttgatt 180  
ggagcaaaaa gggccactt tctcttntg actgtgaccc atactcagtc acaaaagaga 240  
gaanaatctg acctttgaaa cgctaaaatc ctgcctcggt ttgcgtgccg tttctctgat 300  
tccaatttct cgcgtttctc tgcgtccgtc ggggccagtt ttcgaaagca agctatatat 360  
atatcataac gctcagacta aaaccccgag cgtggtcaga ggttggttct gtaaatttaa 420  
gtccacgaaa acgatgatct ttactaataa ttaggaataa cccttacctc gcagtatgga 480  
ttctc 485

<210> 12574  
<211> 477  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12574

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taaactagaa aaaatatact ccatgtgtat ggttgatctt tgtactaacc aatatttatg 120  
aacaatgata gacgttaact tctaagggtc acatgtaaaa aaaaaaaaaa atcaagggtc 180  
tcaactaaat ttttcatctt aagataggcc tatatacaaa gaanatgaat gtaggcagta 240  
acatccttca tttccatcat gtatacaatg ctatctccta tatttttagtc gacttacaca 300  
aaaactctnt tgatttgctt aaaaccattt ctgtgacacc cacaccata tcaatttcat 360  
atnttagttt aaaaaattga accgagaatt acccttgatt acataattac acatatgccc 420  
tctctgtggt tntatacata ttacaaattt aaatcccatg aattcaaaca ttacgta 477

<210> 12575  
<211> 382  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12575

atcaagatgc ggtgacgatg aatggctatc ctatatntaa gttattccct ttatgtgacc 60  
tacttgtggt acacaatact cagcacttgt aatgctatat agttntatag gtgctagtaa 120  
tcttgtggtt agattatata ctatttctgc tatgacaggt taaagagaga ataactaccg 180

tcattgttat taatntgtct ttaattatac tagcttgcaa cccggattgt tagattatat 240  
tattcaacaa gtattgatat ttttattgta tgatccattg gcctcttctc gtaaggataa 300  
tcattgagtc ataaaatgtt tttcaccaat agtcataaca cattaatttg ctttattggt 360  
gaaatgatat gatgctgact ca 382

<210> 12576  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 12576

agcttctaga tgagttatgt ctgctaatac gacatcctcg tgaaagttat gaccatttga 60  
atctctcgag tgcttccgtt gtttaatttc aagcgtctcg atattttatg tcctcaaate 120  
agacatcgga gcgaaatgtt atgaccattc gaatttgctg agagcttccg tttttcaatt 180  
tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gagtgaatg gtatgaccat 240  
tcgaatttgt cgagagctat cgttggtcaa tgtcgagcgt ctagatgagt taggtcatcg 300  
aatcggacat ccgtgtagaa aagttatgac ca 332

<210> 12577  
<211> 495  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12577

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ccctggctgt atcaaaggac tttcacaacc tttgtgtgtt gccctcgctg gaaagagtga 180  
ttctttcctt cctatcatct ccacccttgt tctttcaaac cacaattcca gaaaatccac 240  
ctctgcccaa aattatctcg tgaccataac tcccatttca cacactcaaa ttaagtgatt 300  
cttgagccta aattgaatgt caaaacgaga cctttcacct cgttttggaa tcacctcatt 360  
tgagagccctg tagcttccgt tattgccatt tctatatttc tgtccagcca ccacttagac 420  
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<210> 12578  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tttacattga caagtccagc ctcacaattc tccaaaaggg ggagaagacc aacatcagtt 180  
 atgcatagag tccaatcaga ttaatatgct gaagttggag acacaatttg aacaatcatg 240  
 gctaggctag cactaccaa accagngcac ttttgaatga ctaaagattg aaagactcgc 300  
 aagaaaagta taacacttca tatcatatct ttgactccat gtacttaca gggaaaagat 360  
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<210> 12579  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 aacgccccgg catttacgca acaagcataa tgtaaacctc tacggctcta aaagctctat 180  
 agttgggcct aggctgtaga gttttcattn tgtaaggct ctgtgtcttt tgtctttgaa 240  
 tttataatac aaggatcttt cttcatctgt tcctggctctc taccattct cattcatttg 300  
 catgtntact tctttntcta aaacggcaga ttcgatgacg agtcnccga aggtactaat 360  
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<210> 12580  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 12580

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ggacaacttc tctaaggact aaactaatte agtatcttgg tttcttggtt ttcttattta 180  
tacacctttt atcctttatc ttttggtgta agcttggttg atttggtcatt gtaatacacc 240  
atgtataagt tactagaggt cgagagtagc tagattatcc ggttcatata ctatggcgat 300  
tgggagaatg aattggtaca ttttcttttc tggaaatect tgggtgtagtg tgagcatgca 360  
tatgtacaag ttgttggttt gaataaaaga aaagtaaaaa tgattgactt ataaattatt 420  
gccatacaaa gtatcccatt ttgggatgga 450

<210> 12581  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12581

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atatttggtc tttatatgta tattgntgca tgcagtgcat tntgcaagcc tggaaacactt 180  
gatcctgaaa aagtaaaagg gaaaatagtg cggtgtagta gagatggaaa aataacatcc 240  
gttgccgagg gtcaggaagc tctatctaata ggcgcctgg caatgctttt gggcaatcaa 300  
aatcaaaatg ggagaaccct tcttgagag cctcatgtnt tgtctactgt gaccgacagt 360  
gaaggcattc aaatcacaac gccaccaga tcgcagaacc cctacgtaat atatc 415

<210> 12582  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12582

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ttgaaacaac ttgataattc acccatgtac ggatacgaaa tattgttgaa gatgattcaa 180

ccgagaataa ggaatcaact atgatgaaac atgcgctcca agtgcaaggt tagatgctat 240  
aagaatgcta cttgcatttg catgtattat ggatttcaaa ctttttcaga tggatgtaaa 300  
aagtgccttc ctcaatggac gcgttgaaga agatatgtat gtagatcaac cactanggtt 360  
tttggactat gaacatccta accatgtcta c 391

<210> 12583  
<211> 514  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12583

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ctnttacaaa aaggttcattc aagtcaagtt gaaatatgga agtaaccgtc ctgcataatt 180  
ggngcaaaaag atgaatcgag tcacatcact gcttcgtcta ctgccaaaca tatataggat 240  
tgttgatgtc cttgttactt ccagtttcac cttgacaaag atgtcatgga ccatgttgaa 300  
aatctaaatt gattcaaccc catatcctgc gtaaaaattc gcaatacttc gactgtacat 360  
cattcgcatg cagtccatgc tttcattggt tgcattgctc attgcattct ttccttgaaa 420  
aataatataa aatgaaataa aatgaactca tcaaagagaa aaggacacgc tttacngcgc 480  
ccttaccgaa ctctactat agctagagta atgg 514

<210> 12584  
<211> 183  
<212> DNA  
<213> Glycine max  
<400> 12584

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ctctttatga tgcagatgga ggagtcttgg atttgaggac aaatcctttt caagaatgag 180  
gga 183

<210> 12585



<211> 638  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12585

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 nanannnaaa cncaagcgtc nntgagaanc ntgctcgaga agacagagcg gagctacact 180  
 ctccnctcta ataactaagc tcaattcctt gagaagcgtg cttgataaga tatctagaga 240  
 agctagagca cagccacaca tacatctcta gaagctaagc cccccagga tgcaacatgg 300  
 gaagcagaaa catgcactac tcacggatac tcggacagtg ggcaaataca aggcgcaaac 360  
 gatcgataaa ccaaattctaa tagttaccaa gataatcggc ctcatactta acacatgggc 420  
 ttgatagata ctctaattgcg catgagaacc ctcacgcctt ccgttgatg tgacaacaca 480  
 aatacggagg agccgatcac cccatgcccg cagcgggtat gaatgcatca naagcgacat 540  
 gacctgacgc attacatctc acgagagcat ccaatgcccg aatccactgt atggaacaca 600  
 agggccacaa ccgacatccg tgogaatggt atcacacc 638

<210> 12586  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12586

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 tcctaagtat gatgtaaaagg atggattaat atttagaana cagtaaattg atgattcctg 180  
 aaaattcagc tctgagaaac aagaatttac aagaatttca tgacactata atagggggcc 240  
 atgcttgaag aacaaaaacc atggctagaa tttgtagtca attttattgg cctaaactgc 300  
 aagaagatat taagtcctat atcaaagtgt gcagtatcta tcaacacgct aaggtggatc 360  
 aagcagtacc tgcattgatt ctgcagcatt acccattoca caacatatct gagaggacat 420  
 tgctatggac ttcattacta ntctaccat 449

<210> 12587  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12587

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 ctcgagtatt ggccgtagtc aatcaactta aaagaaatgg tgaagatggt gatgagggtga 180  
 aagtcatgga aaaaatactt cgaacttta atccaagttt tgacttcatt gttaccaaca 240  
 ttgaagaaaa caaggattta aagaccatga ctattgagca actaatgggt tccttacaag 300  
 catacgaaga ataacaaacg agacaaatta aacaatagga ggctacggag caactactac 360  
 aactcaacgt ataggaagca aactatgcaa attacaagag ccaaacagga cgatgtcgct 420  
 gccaatatcg tggacgtgga cgaggacatg gatgagaatg aagatgtggt tacaacaacc 480  
 actc 484

<210> 12588  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 12588

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 attcttgagt cacgctgact ggccggaata cccgagtggg tatccgtata aacttggttg 180  
 tatctgtaag acgaaaaact tgatagcacg cagagactaa cgctcgtctt tgcgcccttc 240  
 gtcaatcgcg gccgacaagc ccggtgacac gcggtgattt acgtcatctt ccgcgctcac 300  
 aagatctgtc atactgactt ttgagtcacg ctgacgggca gaaataccg agtggttata 360  
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<210> 12589  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12589

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cgtgtcaacg ggcttgctcg cgcgattga cgaagggcgc agaagacgac gttagactct 180  
gcgtgctatc aggcttttcg tcttacagac aacaaaatgt ttatacggat aaccactcgg 240  
gtattgtcag ccgtcagcgt gactcagaag tcagtatgac atatcttggt agcgcggaag 300  
atgacgtata tctctgcgtg tcaacgggct tgctcggtcgc gattgacgaa gggcgctgaa 360  
cactacgtt 369

<210> 12590  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 12590  
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cgatatatta tgcacctgaa tcgtacctcc gagttaaagg ttaagaccat ctgaatatct 180  
taagagcttc cattgttcaa tttcgagcgt cttgatatat aatacgctc aatcagacct 240  
ccgagttaaa agttatgacc atttgaattt ctagagagct tctgtgtgtc aatttcgagc 300  
gtctcgatat attatgtgcc tgaatcggac atccgagtga atagttatga ccatttgaat 360  
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<210> 12591  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12591

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gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcaagtc 180

acatcactgc ttcgtctact gccaaacata tttaggaata ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcctgcat aaaaattcgc aataacttcaa ctgtacatca ttcgcataca tccatgctnt 360  
 tcattgggtg cattgctcat tgcattnctt tccttgaaaa taaaatanaa taaaatataa 420  
 tgaacttaat cattggtatc acaaagaaaa aacatgctnt acggcgtcct caccgaactt 480

<210> 12592  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12592

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 tccagatcta cctgngtcaa ctttatcaga gaaaaatcag acacctttga agtattcaag 180  
 gaggttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat cangagtgc 240  
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 catgagttct ctgcaaccat tacaccacaa cagaatggca tagttgagag gaaaaacagg 360  
 actttgcaag aggctgctac ggtcatgctt catgccaaag aacttnctta taatctntgc 420  
 gctgaagcca tgaacacagc atgctacaat cacaacagag tcacact 467

<210> 12593  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12593

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 cattcatcaa agttacaaaa agtgttacac atgcttctat ttatagacta ggtatcttcc 180  
 ttgagaagct ttcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240  
 agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gacaaaatac 300

atgataatac aaaaaanagt ccctactaca aagactactc anaatgcctt gaaatacaag 360  
gctaaaaccc tatacta 377

<210> 12594  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12594

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tgttgacttg accaacgctg ttattggaat gctgcgacaa tctctcaaca ccttattcac 180  
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gtcccathtt tcctttgaaa tgcgatcaat ccatcttgct atggctggac tcagttgacg 300  
aaatatttct aagttttgat caaacacatg cttgcaagga gtgtacgttg catcanattt 360  
gttatcatca aaatntgtac gtagacatca aactcaaatt aaattaatgt ataaaataaa 420  
ccttacccaa tttcttgaac atctctt 447

<210> 12595  
<211> 414  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12595

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catcaatatg tttataacga ccatgcttta ctggattctt cgaaagctta atagcagagc 180  
tactatcaca acaaattaca gtagcctggg tctgcatttt acacaatttt cccaacaccc 240  
ttttcaacca tatggcttga caagcacacg atgctgcacc tatgaactct gcctctgtag 300  
ttgatagact cacaattggg tgtttctttg atgaccaaga gacagcagct gaacacaata 360  
agagaacata acccgaagta ctttgtctat catccaaatc tcttgcataa tcac 414

<210> 12596  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12596

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 ttttatcaaa ggattcaaga tttttgctcc gctgatatcc gacttcaatc tttaacagaa 180  
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<210> 12597  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12597

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 tgttgggcaa gagccacaat tataattgca taagtcttgg cagtgggaga agatatagat 180  
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 cagtatgtat caatggcagt gttgtacgca taattgtcat gcctatgacc cagttcaacc 300  
 atttcttcca gtaatgtcat cctctagtc nggtgtctaa ccctacacca cccataaacg 360  
 aatatattat acgtctccgc attaggcttg actgggtttac tcattatctt atacagaagt 420  
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 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> • unsure at all n locations  
 <400> 12598

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gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgatatt gccaatgctt gcactgcctt 240  
 gggagaaaga atgacagatg anaagctggg gagaaagatc ctcagatctt tgcctaagag 300  
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 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12599

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 gaagcttgcc tcaaagaggt ccaggaagga caaggcagcc gaaggaacta gttccgctcc 180  
 ggagtatgac agtcaccgct ttaggagcgc tgtacaccag cagcgccttcg aggccatcaa 240  
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 ccaagaggaa atatggcacc ggcggtgggc atcactgggtt actcccatgg ccaagtttga 360  
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<210> 12600  
 <211> 420  
 <212> DNA  
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 <223> unsure at all n locations  
 <400> 12600

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 gcatctcaag tgaaagatac cctctttgtc ccttcttata agtatctttt caagttgttt 180  
 ttgcattaat tatttttttaa cccaaatacc tttaattact ttacaataaa tgttatgcac 240  
 taaaaagata aatgcatgat ctctcttata aggattagat aagaagacta gtacacatta 300

Variable	Mean	SD	Min	Max
Age	34.5	10.5	18	65
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	\$10,000	\$20,000		
Health status	Good	Fair		
Exercise frequency	Weekly	Monthly		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Alcohol consumption	None	Occasional		
Tobacco use	Non-smoker	Smoker		
Family size	2	3		
Home ownership	Owner	Renter		
Commute time	15 min	30 min		
Neighborhood safety	Safe	Unsafe		
Access to parks	Yes	No		
Public transportation	Good	Poor		
Crime rate	Low	High		
Property value	\$100,000	\$200,000		
Local schools	Good	Poor		
Healthcare access	Good	Poor		
Community resources	Rich	Poor		
Local economy	Strong	Weak		
Environmental quality	Good	Poor		
Local government	Effective	Ineffective		
Local culture	Diverse	Homogeneous		
Local history	Rich	Poor		
Local infrastructure	Good	Poor		
Local services	Good	Poor		
Local amenities	Good	Poor		
Local attractions	Good	Poor		
Local entertainment	Good	Poor		
Local shopping	Good	Poor		
Local dining	Good	Poor		
Local nightlife	Good	Poor		
Local arts and culture	Good	Poor		
Local sports and recreation	Good	Poor		
Local education	Good	Poor		
Local healthcare	Good	Poor		
Local social services	Good	Poor		
Local public safety	Good	Poor		
Local environmental protection	Good	Poor		
Local economic development	Good	Poor		
Local cultural preservation	Good	Poor		
Local historical preservation	Good	Poor		
Local infrastructure development	Good	Poor		
Local services development	Good	Poor		
Local amenities development	Good	Poor		
Local attractions development	Good	Poor		
Local entertainment development	Good	Poor		
Local shopping development	Good	Poor		
Local dining development	Good	Poor		
Local nightlife development	Good	Poor		
Local arts and culture development	Good	Poor		
Local sports and recreation development	Good	Poor		
Local education development	Good	Poor		
Local healthcare development	Good	Poor		
Local social services development	Good	Poor		
Local public safety development	Good	Poor		
Local environmental protection development	Good	Poor		
Local economic development development	Good	Poor		
Local cultural preservation development	Good	Poor		
Local historical preservation development	Good	Poor		
Local infrastructure development development	Good	Poor		
Local services development development	Good	Poor		
Local amenities development development	Good	Poor		
Local attractions development development	Good	Poor		
Local entertainment development development	Good	Poor		
Local shopping development development	Good	Poor		
Local dining development development	Good	Poor		
Local nightlife development development	Good	Poor		
Local arts and culture development development	Good	Poor		
Local sports and recreation development development	Good	Poor		
Local education development development	Good	Poor		
Local healthcare development development	Good	Poor		
Local social services development development	Good	Poor		
Local public safety development development	Good	Poor		
Local environmental protection development development	Good	Poor		
Local economic development development development	Good	Poor		
Local cultural preservation development development	Good	Poor		
Local historical preservation development development	Good	Poor		
Local infrastructure development development development	Good	Poor		
Local services development development development	Good	Poor		
Local amenities development development development	Good	Poor		
Local attractions development development development	Good	Poor		
Local entertainment development development development	Good	Poor		
Local shopping development development development	Good	Poor		
Local dining development development development	Good	Poor		
Local nightlife development development development	Good	Poor		
Local arts and culture development development development	Good	Poor		
Local sports and recreation development development development	Good	Poor		
Local education development development development	Good	Poor		
Local healthcare development development development	Good	Poor		
Local social services development development development	Good	Poor		
Local public safety development development development	Good	Poor		
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<400>      12601
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<210>	12602
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<223>      unsure at all n locations
<400>      12602
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tcccactcca	agtaggcctc	cggatcattc	tttcctttaa	atggaggaat	gttgagttta	120
ataccatcaa	ttcggttttg	tctaggaaca	ccatcattcc	ctcttctcct	cctttcttct	180
tcattatgat	ctctattctc	catttgatcc	aacctctcat	ggagcgcac	atctcgttgt	240
ttcattaacc	tctccaaatg	ttgcatcaaa	gcttgcatth	ggaattgcga	aagccccact	300
ccatcattag	gattagtacc	tgacatctca	nacaaacaaa	tcaaacgtaa	caagacaatt	360
atagttgctg	tttgaatacc	tcaccacctc	aagtgtatca	cacaattatg	gctnttctct	420
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5323



<211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12603

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 tgcaaatagt gttggtgttt gtgtgcatca aatgaataaa tatttaccct atgcatacat 180  
 tntaaaatgc actaacagca acatagagtt tatatacata agaacataat gaaggggaaac 240  
 caacaaaggg ataagtcatg gtaaaacatt gcacaagatt aaatggccta actctctaaa 300  
 aacaatcccc agtggagtcg ccaactgtcg caacctaccc ttcggcgggg gggcgacgcg 360  
 agactcgcgg gatgcgtgtt ccacgaaagg aatacgcgcg gagtcg 406

<210> 12604  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12604

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 tcacctgcgg catgcaacct gcactcattg ttttggttaa ttatccatta ctgggccccg 120  
 cctgtcttaa taaaacatta gttctcntcc ggagaaacaa cacataattc ggacttgttt 180  
 acaccgttca ttaatatata gatgcacatg cccactgtat acgagtattt ttttgttccc 240  
 tgggccttct tatatcgtca aacagtatac tagaagaaag ggtgcatcta ccatattata 300  
 taacngngnt atttatatct tgggatctaa cggtcgatat aagacgcact cacatattgc 360  
 ttcacccgtc ccgcttttta accaggaaac gtggcgactg ttcaaaaacg gtggcgacta 420  
 ttttttcctt ataccaccat ccagagaaat atcgtgagga gaacctctc tctcactaaa 480  
 ctattgtcgc acaacaacct aaacgagatt ttggaaagg 519

<210> 12605  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12605

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cccttctaata tattntaatt gtttcttgat tgtcagttga ctgaacaaaa attaacacga   180
aaggaggaag gtatgtcagt gggttggttaa acttatatat atatatatat atatatatat   240
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat   300
atacatgtac ttacgtgcat gtntattggt acatttagag agagatagag aactgataga   360
aatcatactt gtgttctcat tattgatctg atgatcaca canatgtcta tatatagagc   420
agagttcaca atgaggccta tctctgactc taacactcac tatctgagtg tgtgagtcac   480
tcacagactc acagcatact atctaattaa gaagagacag cn                          522

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<210> 12606  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12606

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caacccctga tgttgatat gtttccaaaa tagaatgtat aaggagtttt gttcaattt   120
ttctgggtat tatattatta tttccccctt ctgggttcagt tttatgtcat ttaaagtttg   180
ggaaaatagt gggtatgaag catatttatg ctagagggtg gtgtttggtt gtgttatctt   240
ttgtatggct tctcctttat attgaacttc agactaagaa gtatttgaag catatgagtg   300
atcttaaatn taacaatttt ntccataatt attatagcca agtctgcatt ggttttaatt   360
ttttctaaac tatactaatt tact                                             384

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<210> 12607  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12607

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tttgcaagct ggaatcattt atcacactc tgatagccaa tgggtgagtt ccgaagaana    60

```

ctggcctccc gtgataaana atgagaagga ggagttgatt cctacttgng tgcagaacag 120  
 ttggagagtc tgcacgcact ataggaggct gaaccagggt accaaaaagg accattntcc 180  
 actgcattca ttgatcagat gcttgaacgc ctggtaggta aatctcacta ctgtttcctt 240  
 gatggttntt ctggttatat gcaaactact attgctcctg aggatcagga gaagaccgca 300  
 ttcacctgcc ccttcggcac ttttgccat aagaggatgc ctttcgggtct gtgcaatgcc 360  
 cctggtacct tccagcggcg catgatgtag tagtttagtg atattttaga aaattgcata 420  
 gaggtgttta tggatgattt cactgtatat gaatnctctt ttcataattg tttggatagt 480  
 c 481

<210> 12608  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12608

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 gatattctaa gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120  
 atctatctta ctttntactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180  
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
 aagagaaaat gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300  
 tccccaaagca acccgcttga gagttccact aacttgtnaa ttccttttac aagttctaaa 360  
 cacacaagga ctaccctatc tttgtgttta gagattcttt acaacaagag actcacagtc 420  
 tcttaatccc ttanagaatg agaagaagaa gaggaacaaa tc 462

<210> 12609  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12609

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 cccgagtggg gaatgatgaa ggcccaagtg gagaaggatg aangcccaga ggcagagaca 120

ctatcaagac tatcaattgt tgctaaaggg cccaaactaa ttgaaggccc aagttaaata 180  
 agttcttagt tataatttat ttttattgta attntgaccc aaactgttta gaaggcccat 240  
 gtctatTTTT atctttttgt tcagctacac tataagtatt ggTTTTTgtt ntgaataaga 300  
 aaacttttgg catttgataa agttgggtga gagtttctct ctgggttcct tgttgaacca 360  
 attatcagac ttatcaaggt aatccttgtg gtgtctaccc agacttatct tccttcaccg 420  
 gaagtggcgt ctaccctgac ttatcttctc tcaccggaag tgggtgtctac cctgacttat 480  
 cttccttcac cggaagt 497

<210> 12610  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12610

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 tattaatggg tgcaccttag tctctatctt ttcatatgta catcatgcat catcatgtag 120  
 aggtaggaag attgttcact gcataaaact ctatgtttta atcaattata aggctgattg 180  
 taatcgatta cacaagtgtt tgtagctcgc aaagagattt tagttgctgt ttaatcaaata 240  
 accagttaac cataattgat tacatagttc agttgagacc atgtctgggt tttcatcagt 300  
 ctctactcta atcgattacc aggggatcat tatcgattac ttcattcttg aaagtgggtcc 360  
 agaagtgtca ataacactta accgactaca tcaagaatta atcattacat tgtc 414

<210> 12611  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12611

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 cacatatatc tcaagaaaga tatattatat aacatcttat cagacacaat ctctataact 120  
 tggaagagaa ttccataaac ccatagaacc atcacatata gacctctaan aaaaacaaaa 180  
 atcaagacta aaaaatttca agatagatgt anaactaatt tttattntca tatgactatt 240

tgatacatgt aaattaaaat gtcattatat attaataatc aagacagtaa ttttaattaca 300  
 ataattagta cattntatgg aaataaatat tcaaaatgaa nacaatatat ntacaagtgt 360  
 tcaaatcgat tggaatattn tttcttttct accgcctaat cntaattccg aatatttaat 420  
 tgatttgaat atttata 437

<210> 12612  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12612

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 aaatatgata atcctgcttt gacaaataaa aagcctatgg caaatagaga ggatgataag 120  
 gaggaaggaa cccatgttgt gactgtcgtt tctacatgtc caaatttcct agcaactcaa 180  
 cagtgtcatt actcaaccaa tatcagcctt tctcattacc caccactcag tcatgcacaa 240  
 aggtcattcc taaatcagcc caaagcttgc ctttcgtgca ctcaatgcc aacaccaccc 300  
 ttaacacaaa ccaaacaccc aaccatggag ggaggtttcc agtggaaaag tgatgcaatc 360  
 ctaccccgca agggcattgg c 381

<210> 12613  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12613

gcgcgagagg agacaacatc cttgctggac gggctggctg ctcgctgagt gcacaaacct 60  
 ttgatntagt ctcttctang gtnttgcac cgctaagcga gttggctgcc tcaactaatgt 120  
 gaatgtataa atacatgatt ctgatgatgt caaagaagaa tcaaacaagg tggttgcttc 180  
 aaaggataag cattgcttca agattaatac aaggttgctt caacaaacaa agccttgctt 240  
 caagattaac tcaagatcaa gccttgcctc anaacaaagt gtttccaaga catccaaggc 300  
 tctggtaatc aattactang cagcgtaatc gattaccaga agagaatttt gaaaaatagc 360  
 tggtaaaaag ggtttt 376

<210> 12614  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12614

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 gtcgattcta tagagtctac ctgcatgcat gcattgcac tatgagtgt tcttctatat 120  
 gtatcacata gaagttgggt cccatctcta ttagtgatga cattagagct cattcgtgag 180  
 aaacactctc tgatttcgga catgatgac tatcgacttt aagaatgaga tacagatgct 240  
 cactttgtat caggaacatt ttcttgctcg agacgtctta tgatgtctta aagcatgact 300  
 caagattcat gggccttgct tacatgattc tagatgaaga ttcattgactc atgatactag 360  
 agtgcagaga agactcaatc aagatattgc tgattagggtc ctactttata tagcgtgaca 420  
 catggatgct tctctactca tcgttgatga cgagtcatta ctctctggaa tcgacactag 480  
 atagtcta atcgtgtgcagt agctattgct cttactatgt ntcgactgaa ctacaccgtc 540  
 caattgattt angaagctct tn 562

<210> 12615  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12615

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 tcaagaaagc ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt 180  
 tgtaactttg atgaatgaga gtcttggtgag acacaactca nagttcaact tctctccctt 240  
 tntcttccct caatttcgtg ctccccctc tctctttctc tccctctttc ttttccctca 300  
 ttgaagcatc ctctccaagc ttcttatcca aggcctcatc tgggtggtgaa gctccttctt 360  
 ccatggctta ttcttaatg gatggcgctt cctctcacct ctnttctttt gtcttctgct 420  
 gcatctccat ggtggaaaat caccattaaa ggcctccatt gaagctc 467

<210> 12616  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12616

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 aaatcaaacc tgagatgatt tcacgtcatt tacttttcta tttcacaaga ccactaaagt 120  
 cttgcctcca cattgacaag gtcttgcttn ctacgtctgc aaagatttca cgctcaccat 180  
 gatggcctat tcatactacc acaagtaaca gagcattgca tanacaaagg caaacacata 240  
 agacatacat actgtgcana atntgtcaat gaaggaaaag catgtgcatt aaagagaaat 300  
 aataattgcc accattacaa ggcctatgca gccaacatcc aacaatgtag aaaagaagga 360  
 aataaagaga gtgaagccta aacttaagcg tcatttgcct tgctctcggc accctgcttc 420  
 tcctctgtaa gcctactctt cacaacaact tcttcttt 458

<210> 12617  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12617

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 actcaccaat attctagagt agatcaatat atacacacac atacataact actgatattt 120  
 agttttcttct ttgacacaat cttaacgtga ataatactgc aggaggtaca atgctagaga 180  
 tagtcaaaag ttgcatacgt accaaattca ctagtcaatt tgtggatcta gttgctataa 240  
 gtaccctcta ctccatgggc aagattatta aatgtcaaata gtgtctttgt tcttttatct 300  
 ttattctaag ttgcgaaaat tcattgcatg aggctccac ctacttnggg ttgngaaga 360  
 tggatgtaca caaccttacc ctanataaat aggccaatt cttttaat 408

<210> 12618  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 12618

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 agtcataact attcacacgg atgtccgatt caggcttata atatatcgat acgctcgaaa 120  
 ttaaacaatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggatatccga 180  
 ttcgggcaca taatatgtcg agaagctcga tattgaacaa cgaaagtctt ttagaaattc 240  
 aaatggtctt aactttttcac acggatgtcc gattcaggag aatcacatat cgagacgctc 300  
 aaattgagca acagaagctc ttgagaaatt caaatggtca taactttttca cacggatggt 360  
 agattaagga gcatcacata ttgatacgct cgaaaatg 398

<210> 12619

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12619

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 accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180  
 gcctaaaccc atcccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240  
 cgcacgggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
 anaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat cttnctcgcc tgacacgatg accaagtgcc cctccacta 419

<210> 12620

<211> 753

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12620

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 ntactattng tgttctagac gcannnnnch tcnnnnnaag agagancgga tggattgttg 120  
 acgatctntt agaagagacc cgccacgaat aangaaataa atccattaac taacataata 180







tcaactgaga cagacatgat ttgcatatta aacttcanac aggcaacact aaccagaagc 360  
atgcatagcc tcatacatat gtataaagta taatctaate ttgtcaaate tttcagcagc 420  
atatctaaaa attcaacaag atatatgaac 450

<210> 12625  
<211> 353  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12625

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tcattgagtg ttgcatcccc accaacaag atttccttac tatcatcgtt cgagggtatgt 120  
atgtgattct cacacttatg tgcttaagta ttataggcaa tgggtgacat gttactgttc 180  
tttagtagta cattgtaatt cattgagtga gccatagtgc cccgtttgag attgaatata 240  
acgattaata cagacagtnt ggatcaattg gtgtattcaa tcttgaattg tccgtttgga 300  
cagtttgga agacaaattg tttttacttc attntgactt ataagttaag tat 353

<210> 12626  
<211> 470  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12626

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ttccaagtgt aactgttaaa ataattaatt gtgggtgaaca taatgagggt gagaattcct 120  
cagcccttta tggagaatac taagttctac ccttaatatg aaatatgatt atatgaataa 180  
ttaggagtgt aagcagggtgc gggtcacctg cgaacctgaa ttgatccaaa ccaacccaaa 240  
tagtttggtg tgggtaattn ttttgtttgg gtcanaacca aactggacca atcaaacctg 300  
ttgagttntg ggttgggtca cgggttttaa tacttgaaaa tgctgactcg ctgacttggc 360  
ccattgaccc attaatgtgt attanattat tattattatt attaatatat gtaatatata 420  
atatatantt ttaaatttta agaaatcaaa tactatngac tattgattac 470

<210> 12627  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 12627

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 cagggatttg aggaacggca ccattcttgc tttccagtat tcatagttgg ttccatccaa 180  
 aattggaggt ctgttcaactg gtcctccttc tttctccatc gtcatcagaa tgcattctcc 240  
 tagatctcac tctgtgattt cgagtgttgg ctctgatacc aattgaaatt ctgataccag 300  
 gggacagatg tcgtaccgga tgtaacgaca tcacgcttca gaacatg 347

<210> 12628  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12628

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 agatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120  
 tttatacacg gatgtccgggt tgagtctgt aatatatcga gacgctgcaa aatgaaaacg 180  
 gaagctcgta ggaaattcaa acgacaataa ctttttactt ggatgtccga ctgaatcggg 240  
 taatatatcg agacgctcaa aattgagact agaagctctg agcaaattga aatgacaata 300  
 actntataca cggatgtccg gatgagtcct gtaatatatc gagacgctca aaatntagat 360  
 ccgacgctct gagagaattg aatcgcaata actntataca c 401

<210> 12629  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12629

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 aattaaattg tctcagagct ttggatcaaa attntgagcg tctcgatata ttacgggatt 120

cattcagaca tccgagtaaa aaattattgt cgtagaatt tgatacgagc ttccgttttc 180  
aatttggagc atctctcgct aaattgcat aggctatcgg gcatccgaga naaaagttat 240  
tgctgtttca tatttctaag agtttccggt ttcaatttgg agtgtctcaa tatattacgg 300  
gactcaaccg gacatccgtg tataaagtta ttgtcatttc aatttgcgca gagcttctag 360  
tctcaattnt gagcgtctca atatattatc ccgattcaat cggacatgcg agtaanaagt 420  
tattgtcgtt tgaatttcct acgagcttcc gttntcaatt tggagcgtct cgatatatta 480  
ca 482

<210> 12630  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12630

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cttagatatg catgtatgta aacaaaaaca cacttcacaa aatatatata tatgtatggt 120  
taggtagcaa gataccttag atatgcatgt atgtagcaaa aagatacctc acaaaatata 180  
tatatatatg tatggtagca agataccttg gatatgcatg tatgtagcaa aaagatacct 240  
cacaaaatat atatatgtat gtttaggtag caagatacct tggatatgca tgtatatagc 300  
aaaaatacct cacaaaaata tacacatggt taggtagcan aatacctcat gaaaaaaaaa 360  
aaaaaccaac aagattaaga aataaacaaa tgataatgat aaaa 404

<210> 12631  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12631

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cactaattag ctaagctctg tatgactaaa tccaaaccaa gtgacttgca tccatattgt 120  
cctaaggtag ataggacatt tcataggttg agtagaaata atacgagtgt tatagctctg 180  
ctagaaagtg taatgcatag tcatttcacg tctgattgtg tttgtgagcc tagttatagt 240

tntagtgtct ctgagtcaga aattagtgtc gatacaattg cagataacaa ccaaactctt 300  
aatgaattgg ctacgcttaa tgttgtgtat taaccatggn gtattcaata tcttgaggca 360  
gaggtttagtt atgagctaaa gtctagacta atcca 395

<210> 12632  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12632

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agttgggtcat tagaactatc aaattntgta atgagttctt tggaaaaaac cttttcctga 120  
atgaaatgac aagtaaattt aatatgcata gttcatccat gaaacatcat attggtggct 180  
atatgaagag ctttgcttga ttgtcacaac ataatttcac ctattggatg tctctaaact 240  
tcaattcttg aaggagatat ttaatccaaa cgtgtgcaca agtagctgta cacatatact 300  
tatactctac ttctgcacgg tgcagtaaca ttttgctttt tactcttnca agagacaata 360  
ttccctcaa taggtacaca atacccana atacagcatt tgtcaatagg cgagcttgcc 420  
caacctatat cacaatatcc 440

<210> 12633  
<211> 325  
<212> DNA  
<213> Glycine max  
<400> 12633

taagacagcc agtaaccaat agaaaagatc aagcctgtcc tggtaaatgt cgttgttgtg 60  
aagccagcca gcagctgaag aagaagaagt tgaagtgatc ttattgacca aagaaaccaa 120  
aagtgtgtc aagtaaaagc caaatgagta agagcaatat gtgatggctg taaagaatgc 180  
ttgcatccct ttcaaggact gtttataaaa gaactcaagg aggccaatgg ctgtgaacat 240  
ctctgacaag ccaaatatca agtattgtgg gggtatccaa aagatggaca aaactttgtg 300  
atggttcaca gctgcgtccc ttctc 325

<210> 12634

<211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12634

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agcttggcct catactttct tataatango tgccatacag tccagctttt agcacttacc 60
cctactggaa ttccaagata agagaaagga aatttcagtt gactaccatt gagaaattga 120
gttgcacccc tgcaccaacc ctctgatttg cccaggcagc caaaatggct tntagaataa 180
tttatcttaa gaccaaaaac cttctcaaaa caccttagga tacactttta gactctaaca 240
ttatcctgag tggcacaaat aactaaagca cagtgaattt gggtaattct ctgttgcctt 300
tgtggcttgt tgggcatggt ctatangttt agtatttacc tacctacaag accttgatag 360
aaaaactttt tagaacattg aaaacttagt cagatga 397
```

<210> 12635  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 12635

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tcctatgaat gtagataagc attttgtctc tactctctaa ccattactgt cactacattc 60
tggggggttct taatcttgat cgactactct atgtgacacc aatactgaac ttgtgaaatc 120
actgaatctt ttggactgac tcacttattc ttttgcta atcatcataag tctcttccaa 180
aagtgaagaa tttagtaagg ggtaacaatt atatactcac gtaattatta tgcaatataa 240
tat 243
```

<210> 12636  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12636

```
tgaagatatt ctcatgaac ggcaagagag tctgggtgtgg gggaagtatc tgctgctcat 60
actatacacg actgaattga aaggggtgata actgtgccag tgtatccgag gacataataa 120
natgatcaga caccgtgcta tccaacacaa gagatgtata tgacaaacgt accgcatata 180
```

ctccagcgct gaacacttgc ccacgacaag tgacacacac tgataatgag tgggtgcatc 240  
cttcatatta tccattatca ttaactcttg gttgcaccag tctaactatga tgcactactg 300  
gacacgatac acagctcaaa ctcaatacat acctcactca tctgcggtac gaagagacac 360  
ctccctttca caccaccatc tagggcgttc taaacaatca accgcaccgc acgatccgat 420  
cactccagac acctctacga caacggagct cttaccacat cgctcg 466

<210> 12637  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12637

tattctgtgt aattgcttaa ttttcagaag ttaattaata attaataata ttntctcatt 60  
agatcaacaa tccaatttca caactcattg tagaaaaata aggcctcgat attggcanat 120  
gtaggcccaa atttcagctg ttatggacct agcctgttca tcagacttat aacttgcata 180  
tctttatgca atcatttttg cttgatgcac ccagattct gttaaagtctc catcttatcg 240  
aatcttcttg ccacagccaa taatccttgt ccttgcaect ctgcctacca nagtttgtga 300  
ataatgacaa catatcacta atgtttatta atatctaatt gttgctaaca taaatattgg 360  
ctaaatataa tagaatctct tctcttaatc atactctttt atctataaga tcanatatga 420  
catcttact 429

<210> 12638  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12638

agctntaagg aagggtaaaa tggtcatttc atgaaggttt ctaaccataa anttgcccag 60  
actagcattt ggctcgcttg agctaaaaag aaaacttcag ccataagcaa accactcgcc 120  
tgggcaagct gattccttca gacctaagta aacaagctcg cctgggtgag ttccccctgc 180  
actagatggc tttttctata aatagccatg taggagaaga gaaaaaatat ataccagcaa 240  
catgaaagta tagaaaaaca tagaagaaga agaagaagaa gaagaagaag aggataaata 300



gagtcgagggc gctgcagaga tgtgactgtg gatcactctc ttcgttattt ctcttgggag 360  
tcttgtgtta tgcacaatgg tgcattattt nttctaaagg ataggatgta atctttgtac 420  
ccttacgtat ctcttttgat attatatatg gacttaatct ttctactcat 470

<210> 12639  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12639

ctaagcttat tagttgtgca tttaatatata ttgtctctta tggaagaacg gtatgcattt 60  
cttgcaattgc atacttgctt gattgttgta taactattga cattgtgttc cttcaacggt 120  
agcagaatat ttcttgggtt caccattgac ttgtcatat cagcaataat aattntttta 180  
tccttagtca attgaccagc gtataaatgt ccaactaatg acttggccaa ttcattgattg 240  
tgactctcac acattcactt caccatccat ccttcgcctc caaccactgg tttcccacat 300  
agcttatagg gacaccata ttttctacta tcagtaactg ttcttacaaa atctttcttc 360  
ctggtcctat actgactact cctttcacaa ccaattaaga catatggcac tccttctctc 420  
ataccaggta ttgtggttga cctcataatc act 453

<210> 12640  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12640

agcttgtatg attatggtgt acccatcaca tgtggtacta ggtggtgggc gggcgaatgg 60  
gcacaacatg ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gctcacgtac tcccacgtag cccatatcct cgtttctctc aataccgggt 180  
cccatcaat cctcccatc ttccacaaca tccaagcaaa acaacattca nacagcacia 240  
gctatcacag ccaagcaaaa cagagcaaag gcagaaaact ctgccaaaac accaaccana 300  
tcacnagctt tctcacttaa agaccncagt aacaattcct tcgttcggtt cattaaccgt 360  
tggtatcaact cgaaaattta ctggaagtct tagtacataa gccacattn tgaaccgtgg 420

gatctactag caaacatcca gaactcactc tacattactc 460

<210> 12641  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12641

tctacttatg tggcagggcg ggcttccttc actttcttgt ctccaatgcg agctctgacc 60  
actgttcttc cttcccgga tgctcctttt catgtccgcc tgagtgggct tatagcctat 120  
accatacttc ccacgatttc cttgggttat tatcaggcta gttatgccgc cattgtcttt 180  
gcctagaccc atcccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240  
cgcatcggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
anaagactgg anagcggttt ctaacgattc ttccgcggtt tcacgtaagg catggaggat 360  
gggtagctta ccaagatata ttctctgctt gacacgatga ccaagtgcc ctccactacg 420  
aatttc 426

<210> 12642  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12642

agcttctgac agtatgtcaa agaaggaaat tcttcagatt gtcggcgagt agtgaaggca 60  
atttaaactc gacttgacca ggaaataggg acttgcagtc gacaaggacg gtgtggatga 120  
cactgtctgt gagaaataca gcattagcaa ggagaaatgg gcccaattnt gtcagaaccg 180  
caaagacccc tcgtaggagg tatgtacttt gtcattntag ttgttttcta cacaaaaata 240  
acttcttata attcatnta gtaatcattn tctttattgt tcgattnttg taggatgtgc 300  
ggaanaaggc acaggccatc cagaagcaaa aactgcccc ccacgtgttg tctcgtgggg 360  
gttatgaata tttagaacia aagctaattg ctgagaagat a 401

<210> 12643  
<211> 453  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12643

ntgagaggac aagttctgaa ccttggagct ataannatth gtgatatact tttatgcttc 60  
tcaacaatag aattttatgc tagtgtatta accatatact agcaaaaatt gaaaacttgt 120  
agttgcagtt ttaagcctat gacatgattt ttctaatagt gtcntttgtt tgaacagttt 180  
gagttgaatc tattattaag ggatttgggc tacgtatacn agtatttata tcaaataatt 240  
tagttgaaat gcaagggana aaggccaatt ttcagcattt gtagttcata gaagaaattt 300  
gtgtttaaac tctacagatg gttcattgat atccaaatca tgtattgagt tctcatggct 360  
tattcaagtg ttaaaataat tntatggctt ctttctttaa tggatgttct agagtatctg 420  
gtcaagttta attgttcatt tctgatcact gat 453

<210> 12644

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12644

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actaagctca cctcctagag aagattcctt aagaagctag agcttagcta cacatacctc 120  
tctaatagct aagctcaact ccttgagatg agaagctaga gcttagctac acacccccta 180  
taatagctaa gctcaccctc atgaagaaat acatgaaaaa acataaatgt ccctactact 240  
aagactactc aaaatgcctc gaaatacaag gcctaaacga aggataaacc tattctaata 300  
tttacaaga taag 314

<210> 12645

<211> 393

<212> DNA

<213> Glycine max

<400> 12645

attgtgtatt taagagtctg gagtcaatct agacactcaa tcctatgcca taattcataa 60  
tatgtaagat cgatatgatg atagtcattg gcacaaatat tgacttctgt gactgctaac 120

tagcttgcaa tggacgatat tcgttatata gtaatgaact ctccattcag taacacaaat 180  
 ttgtgtaatt agttcgctca aatctattat cttgtgtgtg caactataaa tcttataatt 240  
 ctatttgaca tccttacatt tggcattatg taacaaaaga tgcaagaaaa agttactaaa 300  
 cgttatatag agatggcatt ggatggtata tatagcttgt ctgcacacgc caaatcttat 360  
 ttgattactc tgtccgagat acaggtgtat ata 393

<210> 12646  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12646

agcttggatt tactttgttg attatcttta agtcctttca aagcactggt gaatacaaac 60  
 atagatactt attgtacaat taanattttg atgtacctac gtaatgctaa tgcaaattgt 120  
 ttgaaaaaca acactaacat gttaattatg cctttgaggt aattgtctaa cctattatgc 180  
 aacgaacaaa accaaatgac aacattttcc ttaagcaaaa tggcgaccat atttctatgt 240  
 gcactgcatt ggagaccaac atagggtatt atactattat acattaatta aattcatttt 300  
 gtcagcttaa cttaccca 318

<210> 12647  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12647

ggctntagat aatacattat tattgatcta aagtatatcc gggcatgtat tactattatt 60  
 tatactgtta aanaaagtac aactcactat cgtggtgtga ataacagagg ctctcctac 120  
 aaacactttg ttagtggacc ccactatctg gaaacttaaa gaaagggtga agattgcacg 180  
 acacttcact ttcttataat ctgttaaagc tgtctgctnt tccacatcat ccacacacaa 240  
 cacaaccaac atcaacatgc tttagatttt gaattccaaa tttgaatgta tagtgtaggc 300  
 gccacatac aaacggccac atacataaaa caaagtaaaa tata 344

<210> 12648

<211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12648

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gcctcattct gtttatctat taaaggtctt gaacgaagct catgtagcat cgaacatcta 60
cgtacaaagc tangtgcgcg actcgtcaat aacgatcacc cgtcaactga ctatcatngc 120
ctntagcaga agaagacatg ctcgacgaag ggagagggca taacagggct taccatgtgc 180
cagccacacg catggaccac gtcgtggcca atgtatctct cgctcacggc accaagtaaa 240
acgtgatgca ccaaagcacg ttggagacag atccgtttta cgctcccaa caaacgcaa 300
cgaccatggt ggacacggca ctccacggaa cgccgctaga ggtgatgaga cagaatgcct 360
ncctgtgcaa acaggcacc tactcgacag gatacgtcca agaatggatg tcacccagat 420
acactgccat cggacccgcg gcaactccccg tcgcgactac ccc 463
```

<210> 12649  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12649

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ctcttgagga tcaatcctca tctcgtgaa tttgaaatag gtangcaatg tctcaccctc 60
ctctaaaact attggagtct ctaagaacgt attcatgcta tcaacatcaa tcttgattaa 120
atgtcctctt accctcactt gcttaaggct ctggctcttc gggctatata agttagcata 180
aaactccttc accatagcta catctatgct tccatcttgg agattggcga gacgtttgtg 240
taagttatt 249
```

<210> 12650  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 12650

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ttatactatg ttcttcgatt attacactgt atttcgcatt aatgccatct ataactactc 60
actgcgcacg tgacatatat ataataaaca aaacatcacg ttgtgcaaaa tcaatatata 120
```



tctatagaag gttcgttccct aatttctcta caatggcatc acctctcatt gagctagtga 60  
agaagaatgt ggcatttacc tgcggtgaaa aacaagagca agcatctgct ttgctcanag 120  
aaaagcttac taaggcacct gttctagctc ttcctgactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgttttggt gcaagggtggg caccctattg 240  
cttatttttag tgaacaactt catggtgcca cccttaacta ccccacctat gataaagagc 300  
tctatgcctt aataagagca ctccgaactc gcgaacatta ccttgtttcc aaggaattag 360  
ccattcatag t 371

<210> 12654  
<211> 572  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12654

ccaacgcgct centcnctac cgcaagcccn gactaccaac gcatgtgttg aaattnnnta 60  
ccttaggaac gtgctgtcta cctactataa cgccattcca ctogtcccga gacctctcag 120  
tcgactgcag catgcagctt gtttactttt tttttttcat aggcatacac ttggggagcc 180  
tttctttctt ctttaacact gcttactacc gatgtaagga acttcttcga aagatgatcc 240  
accgtgatc acgtcatcag aaaatgtacc ttccagaatc agcatcgacg aatcccttgc 300  
ttcattgcgg aaatagatct cttaatcgct taggagtatt cttctctctt accttaatgc 360  
aaaagcgcac cataactcaa caacggaaga attaattcta gacttgaaag agaaatgact 420  
acacaccacg cttgcatcgc aaacgatgaa ctaaacgaca ttatcacctt accttccact 480  
gtaataagcc acccacctta ccagctgtga accgtaatat atgtgtgcaa ctgaaccaac 540  
aatgactact gggtaagaac acacgcatat cc 572

<210> 12655  
<211> 653  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12655

cctacctcac tantaccatt actcacacce cctcnntggc cnatcnctca tcgaattctt 60

gntcanctat cgaattctac acnananaan ngaaacnnnn nnaagagagc ancttgattt 120  
 cgatggcatt cgcatatang cgacactata caatactcat actcgacaca acaaggtcta 180  
 acatactcat tctcacacta agctgtgttt attggtttag aattcgtctt gtgcatcggt 240  
 atatgcagac actctattat gtaggcagca taatgcttgg ccttaactca cactctctct 300  
 tattgctata tctgtagaac tacactctgg gatccctgat cattaaatnc ttatctatga 360  
 gcctatggcc catcatcgta cagatgctac atccttcttg gccctctatt attcgtatat 420  
 aacatagttg cgggtgtatc aattttctag gtttattaga acgttatatc gctagctctc 480  
 ttcgataata gaaagataat atgattctct ggagctgcct ctctgatgcg taagatccat 540  
 actcaatgtc gcacactata aaggatgttc tggacgttat aaccatcgt ctcgaagata 600  
 ttaattaaca ctcaattgcg atctctccac ctcggtgctc atgctatcat ccg 653

<210> 12656  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 12656  
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 cccatcttta atggagtggg taccactact ggaaaaccgg catgcaaadc tttatagagg 120  
 caatagattt aaatatttgg gaagccatag aacaaggacc ttatgttccc tctataatgg 180  
 ccggaagtgc aacaatatga aaacctatag cagattggac tgaggaagaa agaagattag 240  
 tacaatataa ttacaggcc aataatatta ttacatctgc cctatgaata gatgaatact 300  
 ttagggtttc taattgtaa agtgctaaag atatgtggga tacactacaa gtaacacatg 360  
 aatgcacaac agatgttaac agatctatga taaacactct aactcgcgaa tatgaactct 420  
 ttacgatgaa ataatg 437

<210> 12657  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12657

acttctttac tctcctcgcg aattgtagcc tctttcccat tcactcttta tagctntgag 60



agccaagtta tcccttgctg tctatactac aaccatttgt gatagctgcc aatgacgcca 120  
 ttgctacttc cccaaagctc cttatctttt ctttactctc tatttcacgc tctctggatt 180  
 ctctaaagta tcttcacatt agctctattg aaacctcgca caatgaaagg cgcaatgatt 240  
 tctccgacg gtgcacctct cattgagtaa cctaactgtc ttatggccag cacatgtata 300  
 taattaatac aagccctcat gcctatcaaa gggatattgg ggaatcctta catgagcata 360  
 acactactgt cttctcttct ttcac 385

<210> 12658  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 12658

agctatgtaa gtatattatt tctaattgcat ttgaaaggaa ttatataaag atttaaccaa 60  
 tataattaat attctaattg taatacaata ttttatttta gataaacaaa aataatgtat 120  
 gatattaaca ttcgaaagca tacacaatat tcagacacaaa atacaatcaa cttattaaag 180  
 gagaatttca tggatgattc aatctaataa actatgtgaa ctaaaaatta ttaatgtgtt 240  
 ctgtatgtaa taattaatct atatataata taattaaatt atatgatatg gggttgagttg 300  
 agtctagt 308

<210> 12659  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 12659

atcaccccca ttctcaatta tagagctgca attgaagtct tagttctaga gtcacacgct 60  
 ggaaagtgag aaattgaatc cattccacaa ggcatatacc agttgtctgc tgttatttct 120  
 ccggaggaaa aagagaacat tgtaattctta taacatactt atagcgcttg gtacttacgg 180  
 atgttaatta agactgaatg atcatttcat gatacatata atacctacca cgatattaat 240  
 aatgatacag ctcttcaatt tcatagataa cataaactca ttgaaacaaa atatacgata 300  
 cataactgac tatacaacaa tatgactacc cttctgccga tattggcaca ccttcttact 360  
 ttgtctt 367

<210> 12660  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<400> 12660

acaggaagat gacatgcctt gccaaagaca acccgatatg gtgacatccc tatgggtgcc 60  
 ttatgggcag tcctatgcgc gcatagagca tcctctagcc tggcgctcca atcctttctg 120  
 ttaggctaca ctatcttctg caggaccctt ttatctcc 158

<210> 12661  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 12661

tgaccaatcc cgaccaacc cgtgcatagt cagtcagtga gaacctgtga tgtacctaaa 60  
 caggcgagct cctggcagtc aacagataaa aggaacaaag accacaaagc aaggaggctt 120  
 gtgtggtggc tggccagctg tgaactttgt gtgatataatt gattatggcc tcttggaatc 180  
 gattaccaag ggtgggtaat cgattacaag gcttaaaaat gaagacagga ggctaagatg 240  
 gtctctggta atcgattacc aagaggtgta atcgattacc aggcttgaaa acgagatca 299

<210> 12662  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12662

ngctctataa attctttctc acttgataca ctccatggat gaacagcagg gacttttgcc 60  
 gaataaagag tgggtgaatt tgcaggagga ttatgcttgt agatcattgt atcaagaacg 120  
 ggggtcaaaat tctgaggaga atctatggag acaācagaaca taggaattgc aacctttctga 180  
 tggattttcta cgtcgccac aagggttaaca agctcaacaa aatcactgat aaggcgctga 240  
 ggaacataga acacctcaga actgcatatt atgagggttt tatcggtgtc gcttggttct 300  
 ttgtaactga ctgaaagtg cgctggcatc gtgctaacaa ccttctgtac cattcttgct 360

tgttgtgaaa cccatctgag tcctcaccat ttgtaatata gaagaccgag actcngatac 420  
ctgaatccca gtaa 434

<210> 12663  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12663

cgtcagagcn atgatanaat tagtggcaat gtgacagata agagccattt atagtgtgaa 60  
ttgagtgttg agaggtcnga ttntgaatag gtggagattc taccttaata ttagcttgag 120  
caagtctaata tcaatgttat atacttgatg aagatgagag tttaacccac aattacccaa 180  
ttttcattgt cactgtttaa accttgaaaa ttactatat ttggcgggtt atggatacct 240  
ataattcgct ctaccttggt ttggagtttg attatggctt gaacatgatt tatacacggt 300  
ttaggacctg 310

<210> 12664  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12664

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gcgactggtc cttttcttcc cttecgcaact tgagtctact attgctaccc catagagctc 120  
cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctct tgttcaaggg 180  
ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctc ttgagagctn 300  
ggacttcttc gtctcttcc ggtgcttcat aattctcttc gctgacgact ttttaacttgg 360  
cgagccaatc taaacctcgt atgcgaactt tcagccattc gtggtacca ccaatgatgc 420  
cattacgaat gcctctaagc tcttgatc 448

<210> 12665  
<211> 450  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12665

ctgagacgca tgtgaaactc tggcatcatc aatacattca tctttattct ttgtccacaa 60  
tctccnccta tttgatgatg acaatccctg aaatcaagac aagctatata caagatgata 120  
gcacgttcac acaaccctta ctctccctat cttttggcat gtatgcataa ctgtacttaa 180  
tgataaattt ctaatagata attgatttct aaccaagtt ctctctctca gttctctctc 240  
cctctggcaa catcacaaag aactaacgca catatatcta tatccaaaca gagccaacaa 300  
taaaccacaa taaactcata cattgtcata accaaccaaa tcacagccaa gaattataac 360  
ataagtgcac gactacgata actaacgcct aagaagccaa atacacggcg ataaacaaaa 420  
gtactactaa tacttaatta ctaataatac 450

<210> 12666

<211> 511

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12666

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cncnaagcgg ggctgggtgtg actccatgac aaacnaaang acgcagaccc atgatcaacg 120  
aagctaacag cataataaat accatttata tactcgaacc gtccacgagg agcggatgag 180  
ctaggaacga caacgcgctc ggtaagcagg aacattacct cacgcatgtg cccaccaata 240  
ggctggaaga cacggagaag agaagaaaca gggacaacgc ggacagccat gcgcgaaagc 300  
accactagga agcaacaaaa aaaatgcgcg aagcacgcgt ggaaaaacca cgcgatgagt 360  
ggcgaggacc atagcaaaac ggagtattaa caggagacg accaaacaag actaacggaa 420  
aaccagcgcg aaacgggagc gaacgacgcg aacagccggg aaacgaaccg agcaacaccc 480  
aggcaataca cggaacaat cgggcggggac c 511

<210> 12667

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 12667

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 gatcaatatc ggtgaataat attgttttgc cgaggtgggc taatgttctc ctggctgaat 120  
 aaatgagaac atgccatttt cggccgaaac gaaacatcgg ttgagctcgc acgataaaac 180  
 ctagccgacc tacattgtaa gttgtttatg caacaccgaa acaagaaaac ttcccctgcc 240  
 gtaagaaaaa taattatggg ccagccagcg tttttttaa ataaataatt gcgcagtgtc 300  
 ggctgaaaaa tatcagtcgg ggccatttca cgaccgatgt cggctattga gtcttctatt 360  
 caatccctga atgataatgc atgatgtcga ttangaaatg gttgatcggc gtcacccggt 420  
 gatgcttctt ttttagacct cgatcgggtca 450

<210> 12668  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12668

agcttgcttg cggatcttta tggaggatgg atctttgagc ttcaatgtgg tccttcaatg 60  
 gtgatttttc accatggaga tgcagcggaa ggcaaaggag aataggagag gggaggcacc 120  
 atccactatg gaataagcca aggaagaagg agcttcacca ccaagaattg cttgggataa 180  
 gaagcttgaa gaggatgctn taatggagga aaagatagag agaagggggg agcacgaaat 240  
 tgaaggaata aaagaggag agaagtggaa ctttgaagtg tgtctcataa gactctcatt 300  
 catcanagtt acaacaagtg ttacacatgc ttctatttat agactangta gctttcttga 360  
 gaagctttct tgagagaact tccttgagaa gcttctntga gaanacttcc ttgagaagct 420  
 agagcttagc tacacacacn cctctcataa ctaagctcac ctcttgaga agca 474

<210> 12669  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12669

cagatttagt aatgaccac taacctagaa taaaataact tattgccatt aacctangga 60

attaanacaa actaaatggc tgagtgtaac tganattgtt ggcaaccaa agtcaccctc 120  
 aacagccaac aagtcagcca ccatttgggc tcccaaaagg ctgatgccta ggttgccaat 180  
 tggggccctta ttacaacttg aactaaagcc ctttttagttg attaacccaa aacatattat 240  
 tggtcagcca actttacaag gattgggcca ttatttagac aaactaaaca ctctagacat 300  
 gaaataaagt ggtgtcattt agtctccat ttgcgccatg atacaactca caaccttgga 360  
 cttttctcct tgaaacttgt gcttgatttc aaatagtatg gacagcac 408

<210> 12670  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12670

agcttgcttc tacaggttcc ctgttcccaa ttatggtatc aaaagctggt aacaaacaat 60  
 aaactaccct cacctatcta tatctctctc ttagctcctt gcagagttgt tctaagatat 120  
 cttaggttca cgtccgttca ttcaaagcga gaactctata tagaagcaaa aactttgatg 180  
 ttntggtgat gccaaaggat catgcgcttc ttaagtttaa ttcgaaggat catgcgcttc 240  
 tcaagtttaa ttcaagagga tcatgcgctt ctcaaggtta attcaagaca agaatccaag 300  
 aaattccaga tatatgatca agataatctc t 331

<210> 12671  
 <211> 626  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12671

ctctctacac tctcctgtcc anctttcaga ntaccacata tcgttctcac tacattgtct 60  
 cannnncanc aacaaannnt acagtggaat tganttcatt gccctgcgac acgcacacta 120  
 ctcaactctga cctacacacg tngataatgg aatcctgagt gcctggatga catcgattca 180  
 tcgtctgttg ggtcttatat gaaatgggtg cacagatgat gatgcgctac gaatgattga 240  
 ataataacta ttttgcacag aatgtaatgc atgaatatac tgccagtcag acagaacaca 300  
 ctctgttgat aattgttagc cggacacccc aatcttctga acacacggtg tttgcaccct 360



ttatagttng gaacactata gagtcttctg attcctc 337

<210> 12674  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12674

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 acgcatttcg tccttgaggg ttgtgtacct tatgcgttgg atcattccca atccatagct 120  
 tatcccttcc gattcgtgcc ttgagtcgaa ccttgccctca tgatatctat gtctaatacta 180  
 attatctcta gagggctaaa cgcaccataa aatcgtgata tacacaatta atcacacctc 240  
 gacaatcttg agatatggga gaatatnttg aaatgtcata atgcattgac tcatgaatat 300  
 aagagaggat acgcatagtc aatgatgata aatagacatc tctctgacct aagaagacat 360  
 gctgagcaat acaa 374

<210> 12675  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12675

tactaagctt gaacagatga tttgagacag catgtacaan aacaacagga gataagtgtg 60  
 ttttacatga aagatcacca tgttcttcca taccagaggc gcaaggagga gcaagaagtg 120  
 tgagccatgt angtgtgtgt tggtttagat gatggaaata gagaagatgg aaataaaaaga 180  
 gaattntttt aattaaaata gagtgtaaac agtatgggtc ccacaaaaaa ggtacaaaagt 240  
 ttcacctcaa tattatattat ctccacctac ccgtagtgat ggtagtgtaa cagagcagga 300  
 ggtggagtaa caattgactg gatataataa ttgcacaaat taacttatgg caaagtttgt 360  
 canagaattc atttcttatg gtaagtagat ataaacaaac attataatca gatntcatat 420  
 aatttcaatg tttcaagagt attngttagt tgggtgaagt tgaaaaaatg aactg 475

<210> 12676  
 <211> 456



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12676

agcttgtaaa gctcattcac agaagcagct gcaacctgcg ctagcaccat caacatggca 60  
ggcttcaact cttgcactcc ttccatgtg tatttcatct ttattgcta gctgctgtaa 120  
tatactgggt tgaatttgaa taaggaanaa gagaaatata aggatatata gaacatgcat 180  
atcattgcc aagccaaca cagcaatgca tatatatagg aaattaataa tactcgatca 240  
gattatttct aggttaaaaa agcttgcatt tcgttttagt ntactatata taaactaagg 300  
acaaaactta tagtgacgca tctcaagaga attaatttgt cttattcttc aataaaaagt 360  
agagtnttat ggcgatttac atattttctc gttgagttat atggngatct aaatatatct 420  
tcgtcgagta atgtaataag ttatatcatt attatt 456

<210> 12677  
<211> 658  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12677

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cctacgctct anacgnanan tnancaanac agcgtgggtt tgatttgata gcacttcata 120  
agcgactat aaaaactcca gcttgactac cgagttgatc caactgtcag ctaagcatcc 180  
acctttttct agtcacaca aggccaaata atgtcgatat catccagctg ttagccacaa 240  
cactaaagat cgcattaccc ttaacgataa aatagaaaag tcgatccaac aaggggtactt 300  
gcagacgttt gtcacagacc tatcacgtga taggaagtga gatagaagcc aagaatgtat 360  
gaagagtcgc gaaacaatag aaacactttt gtcacgataa gaatcccca cccgaaactc 420  
gacttccagc gataataaat gcactaaaca aatgctgtgc gaggggagga cagtgcact 480  
cgacacacac aggtatatc tgtagcttta tgtccggcga cacatcgctt acacgaaacg 540  
aatgtcacia cgagcatatc gcttatctcc tgtaccgacg acgtatctga cgcgaaatcaa 600  
cgaggcctca atgatctaac gtgaaccacg actaaggctg taactctaata catgcacg 658

<210> 12678  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12678

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tnttttatchn gtaatgcacg cacaagacgc acaagtgagg ggggatgagt atattcctac 60
aacaatgtaa tctatccatg acccacaggc acaaagaggt ggttgagcat tctntcgtga 120
caatataata gacgataagt gaagtgtgca caactattta cattaacaag aatctatggg 180
gataatagta tacgccttac atcgaacgaa aacgtgaacc tcctgattgt ggacaagccc 240
aaciaagcgg atcttactcc gcctctagga gatctctgag ttatagctta gccagttatg 300
gagactcatt accatcatag tagaatcgta gtaactaatt tgcactacat actatagttt 360
tacttctcaa atcgagttaa cccattgaat ctaaattggg caataaattt ctccatattt 420
tcc 423
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<210> 12679  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 12679

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accggtatat gtggactagg tggcgatcgg gtgatgggtgc aagtcgactc tccacatcca 60
cagatcacac ataaatccac catccgcagt tgcccacctt caactgagct catgtactcc 120
cacgtagctc ttatcatogt tcctctcaac accggtgccc catcaatgcc tccaagcttg 180
cacaacatcc aggcaattca acatccaaac atcatgaact atccgaaacc aagataacag 240
ggcagaggca gagtactctg gccaaaacac ataccaatac cacagctttc cttactcaga 300
taccctagta acattctctg tgatccaatt cggtcaccgc tggagtggac tcacaatatt 360
actggggggtc cctagtacat aagtctacat tt 392
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<210> 12680  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12680

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 atatatatat atatatatat atatatatat atatatatat atgttttaggt agaaagatac 120  
 cttggatatg catgtgtgta gcacaaaaaa tttcacaaaa tatatatatg tatgtgtagg 180  
 tagcaagata ctttggatat gcatgtatat agcacagata tctcacaaaa catatatatg 240  
 tatgttttagg tagcaagata cctgtgacac acatgtatat agcacaatac ctacacanaaa 300  
 tatacgatat tgtaggtaga aaaatacctc atgagaaaag agagagcgag cgagacacga 360  
 ttatgatcaa aataataata gagagacaaa ttatactacg atatcaaaaa tattagcggt 420  
 tgtctagcta gaacacaaca tgcttgtgaa gagagatgac tttcagctg 469

<210> 12681  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12681

actctcatct caaacaagtc tataacatta atttaaactt gctcaaactg ggtntnchnag 60  
 gaaaactcca ccgattcaaa atttgacccc tcaacaccca attgnncnta gaaatggctc 120  
 ttgttttcac ctctgtcact catntttttc tcatttgctc tgcccaagct ntcctacnng 180  
 ngctaattga cattgtaaac taggatcaac tcactttaga ctgcgngnac ggtaaaccaca 240  
 aatctagttt ctctaaccct cacaatctca cactgttcta cctacaacat tgtcatcctc 300  
 acatttaacc cctaagttaa ctttccccgt catgcatacc agttgtctat caacaatttc 360  
 agcacacaca catcac 376

<210> 12682  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12682

agcttgccac ccagctctct caggcgagct aggttgcttc ctccagaagg caccgccttt 60  
 tgggaaactt cctggaaggt ccaagtgggc ctggttgcta tttgcaccct cctgtttact 120  
 aaatacacc ctttccttnt ttttgctgat tcttttttcg taacgttatg gaaccttacg 180

aattacgtaa cgatactttg tttctttccg taatgtcacg aaaccttacg gattatgcaa 240  
 tcatcccttc tttggcttcc ggaatgttat ggaactttac ggattgcgca ttaacacttc 300  
 cttttgactt ccgagatgtc atggaacttc acagattgtg caagaatgct tcctattgac 360  
 ttcangcatg tcacggaact tcacgaattg cctaacgatg ggtgccaaagt acc 413

<210> 12683  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<400> 12683

tcatacaatt aatatagaac ctatataccta atatcacatc ctatcagagt cgtgtgttcc 60  
 cgtgtcttct aacatgaggt tcttcatagt catccaccta ttcattctgct cccccgaaca 120  
 caagttcaag atcatcacag gatccataca caacaacaca catggagtga gttatcacat 180  
 t 181

<210> 12684  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure 'at all n locations  
 <400> 12684

ctcccctagt ttgctatana tagggggaag aagtgaagaa taatagggtt tcatccccag 60  
 aagtaccttt ctctctttct tcaaatagct cgggaaaatt acattcatgg agaaaaattc 120  
 agccgaggcg ctctcgtaac ggttcccag agaatacacc aataatcttg accccgtttc 180  
 aagagataat ggtccgcttt cgtttctttc ggctctaaag ggggaaagcc tctaaccaaa 240  
 cgtttaaatt aatttatgtg cacgcggggg gcacacattg ggtccgtggn ttatactcgg 300  
 gttacatcaa ttatatacccc cctttgcgcg cgttgacccc tttttatanc gtattcgcg 360  
 tatatatata aaaaataact cccacggggc gtgggagttg atcaaccata atggggagaa 420  
 aagattcccg cgttgtgagc g 441

<210> 12685  
 <211> 423  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12685

agctgtgtaa tgaagtatac aggctatggt tatttagtgg cattgtttat aactcgtcca 60

agagttcttc ctctttaatt acctgttata tattcttttg attctatatt ttcaagcatg 120

gaattaaatt gtatatacag gatcaatttg aactatgcg taaaacttta acacttgcac 180

cacttaataa ttacacgaa attaactaat tccaccattg attaagttaa aacaattcca 240

tacaaaacaa aaactaattg atacttaatc aatatgctnt attttgatag ataatatatt 300

atgtctttta tgtgaaataa gtaaaatatt tagttagatg aaatttcagg aatatgttta 360

atttatgtga tatttgatat acatgataga gaaagtaaatt attatattaa ttcgcttaac 420

ctt 423

<210> 12686

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12686

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caagaagaat taaatctagc catgaccac aagcacaag tggcgacga ctatgccga 120

gtgtacacgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcatca 180

atgtggataa acctatttgc tcttactttg aatgagagcc aagaacttcc ccgattgctg 240

gccaaggcca aagcaatggc ggacacctac tccgccnccg aggagatcca cagacttctc 300

agctattgtc agcatatgat agacttaatg acccatataa ttaggaaccg ctaggaagtt 360

tgtattgtca ctcatatctt gactagttat aactntctga at 402

<210> 12687

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12687

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ggctgcagca cgggctccgc ttccctaacc gtactggagg cggttgccgt ggccttatcc 120  
 tctatagttt tctggagttt taacatgacc tccgagatgg aagccatttg atctttttaa 180  
 gccaatagat cggccttcat ctgttcctgc acaccctctt catcatccat tnttctggat 240  
 cgagtgttat aggggtgcct tgggtgttttc ttagttatga tgaaattcct aaagagataa 300  
 acaatgggga gtatgccacc aaaacatgaa tatgcaaata aatgattgga acacttggat 360  
 ccaccctaag ggttnttttag ataacatgat gagttcagaa cttctcattt tatagaaaga 420  
 acanagctnt catctagcca agattataca aagggtgttat aagagaacct aacggnttct 480  
 aattatgtgg gccatcaaata ctatcatgtg 510

<210> 12688  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12688

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 tggagaactt cctggaaggc ccaagtgggc ctgggttgcta tttgcacccc cctttttact 120  
 aaatacacct gttgcctttt ttgctgattc tttttcccta acgttacgaa actttatgaa 180  
 tttcgtaacg atacttgntt tctttctgta atgttacgaa accttacgga tcaogtaate 240  
 atccctcttt ttggctttcg ggatgttatg gaactataca gattgggctc tatacacttc 300  
 ttttgacttc tggcatgtct ctggaacttc acgggtcgtg cacaatgcta ttttaaactt 360  
 cctgatgtca cggaactcat ga 382

<210> 12689  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12689

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 attcatttgt ttgtttacac attgaccaac tntcaatcgt cttataaaca gatatacaat 120  
 cccaacacgt agtcttttct ctcaagatat tcaaagtgtt ttcaagctat tcaaaacttt 180

ataagcattt atagacaact tatttacaaa aagaaattga atttgagcgt ttcaattggt 240  
tcttcatgtc ttcaaagctt ttggtattta tagaccttct tcaacaaatg tttggtgtct 300  
ctaaataaca agatttcttt tctttatctt gcggctgaag aatatggcca ttggagcatt 360  
taatgtttgc attanataca catacttctt catactagaa ctgactctt cttgatatc 420  
at 422

<210> 12690  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12690

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ttggtaaccc gtgcatacgc acgggtcact tgtaatttat tntgtatgaa tatttattta 120  
ttctataata cagtatttaa atgaaaaata gtacgaaaat aaaaaaatat gtaacattaa 180  
taataattag attgtttgca taaacaaaaa aaaagcaaga ttactcattg accaaggtaa 240  
tgttaataaa caaaacaaac aacataaact taatttagtc actatcactg gtcgtccaat 300  
ccttttgact tctaataata atttcccaa tttgttcatg acgcttgtag tagaatgaga 360  
tttcatcacc ataagaaaaa ttactttctt taaggaaatnt atatcaagggt tgcacaacat 420  
anntttttcc aattttaata tcaagaacga taacat 456

<210> 12691  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12691

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aagcatgaga atagggactt gtttgtaaga atttgggctg ccccatgatt ggcactntgc 120  
gcctaagtaa cgtgggagat gcttttcaat ggtgtgtaga tatgtgtgtg tcatacccta 180  
atttcgtccg gggaccttng cttgatgaca tgcgaccttt ctttggtcct tgtgaggtgc 240  
ttggcatcca tcattgggca atttgtgaaa ttccaggaca tgccgaataa ccaaaaaaaaa 300

tatattgatg cacaatccgt aagtttccgt gacacaccgg atatcaaag gaagcatcat 360  
 tgcataatta agtgagggtc cgtaacattc tgtaagtcac aaggcggatg attatgtaac 420  
 ccgcaagggt tcgtaacatt 440

<210> 12692  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 12692

agcttgggag gattgttttag ttttccggtg ttgagagaaa tgacgatatg ggctacttgg 60  
 gagtacgtga gctcagttgg aggcgggcaa catgggatgg tgggtttatg cgcgatttgt 120  
 ggatgtggaa aacttgggtg gcaccatcgc ccgaccgcca cctattacca catgtgatgg 180  
 gtaccccata atcctacaag ctagatatga ggaagtgtac aatgggtgaaa acttcttctt 240  
 ttattcgttg accacagagt ggtacctgga gatatgt 277

<210> 12693  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 12693

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 ccaacagcat acattaaggg gccaatgatc tctttgaatt tggtgcacc atatggatat 120  
 gctgctggaa cctcttgctc tttagatctg acatcaaagt caacttcatt cgtcgtgggtg 180  
 caaactcggg ggctcacgga ttagtatgat cttttggaca ctctgctgat cctcgttctt 240  
 cttatctgtt catgctcgat tctttatcaa tatcccgatg cttaaataaat gagtatatat 300  
 atatataaa atcacacttt taattcgaca agaagaatat tcta 344

<210> 12694  
 <211> 103  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12694



agctntaatc ttttgatcct actatgtgac taatcattga tcttggactt agtcaaactt 60  
aaagttcatc tctcgtttgt aatagtgtat tatgttggga tga 103

<210> 12695  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12695

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gaagggaatt ccaattgaag tagcaaaagg tttggccaag aaaattaagt taaaaagtct 120  
tttacaagaa atttactctc tggtaatcga ttaccagagg atgtaatcga ttaccagtgg 180  
ccaaaactga tttacaacag ctattaaaat ttgaattcaa aatttgcct gtgtaatcga 240  
ttacacatat atggtaatcg attaccagca gtttctgaac cgtttaattc aaattntaca 300  
gcttgaatc gattacacat atactgtaat cgattaccag atcagattnt cagaaaatat 360  
tctcaatagt cacatctttg tatgtgggtc ttgaatggct atcanaggcc tatatatatg 420  
tgacttgaga ca 432

<210> 12696  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12696

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acattntatc tatatacaat tgtttgttgc ttgcttgaat cttgatttca ggtattgtat 120  
tgtcatcatc aaaaaggggg agattgtaga tgcaaatgcc tttggtgttt tgatgatgat 180  
catgatgata tgatgcaatt gatgcaaag ggcttttcaa gattaaattc aagacaatgc 240  
ttcaagatta caagtcacaa catcaagatg atcactagta aattaggaag ggaattccta 300  
attgaattag caaaagggtt ggccaagtaa ttntaattaa naagtgtttt tcataggtn 360  
tactctctgg taatcgatta ccagaggatg taatcgatta ccagtgtgca aatattattt 420  
ataacagcta ctganatttg aattcgaaaa tttagactgt gtaat 465

<210> 12697  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12697  
  
 aatctcttcc acacncaagt ttggaccaat tagtaaaagg gtgacaaaag agttaactac 60  
 aattccaatt cttcattacc agtcaaaca actattgttt tcttcgatag accaaaatca 120  
 ttntatatgt tggatacaac tgttgggtcac aaaagctgat tctctccaca agatgaacaa 180  
 caataaggaa aacatactat ctcaccaacc cactaggaga gaaccaatca ttgtcaatca 240  
 agttgctagg gatgcatcat gctctattta ccttccacta tagacatata tacatgcatg 300  
 ctaat 305

<210> 12698  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12698  
  
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 atgcgatatg agccttttgg gctttgagca aaggctgagc caccttacct tgtgctaaaa 120  
 tttatcttgt tttattgtga ataatggaga tataatgtgt caaattctct gtctgaaca 180  
 cttggtcaag agtctctaata accatgtcag caaccttcgc tattgaaaag tcaagttggt 240  
 agttaaact catgaatggc tcgagctgaa ttaattatat atgatattta ttatattctt 300  
 anaaattata attaaaccta attgtataat tatagtttaa tataacttaa tta 353

<210> 12699  
 <211> 505  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12699  
  
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 tctgaggcat tagactctc tctcatacca ttattcatca nnaccatttg attctgtac 120

aatgttatct gtttggcaag tgtaccaa at gtccaagtaa taaagtctcg gaagcccgag 180  
 tgtcgaattc cattggaatt ntgtgttgta cttatcttgg atacttttca atttataagt 240  
 ggaaaataat aaaagagagg ggtagaagag agaataggaa caataatagg aaattataag 300  
 taatggaaag caaatgaatt anaagcagag taatcaaaaa gggaattcaa tggaatgtaa 360  
 gtgttangac ctaacatgcc ctatntgcct aggatgtatg attntatgaa ttttctttac 420  
 caattcaagt gaatttatcc taccacatc tattcattta cttgtccctg atgcctcacg 480  
 atgaacangc ctatttatnt atcta 505

<210> 12700  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12700

agcttgcttc tacaatctcc ccattntgat gatgtcaact tctgaaatca agaaacacac 60  
 acacacacac acacacacac acactttttc ctagtgcgac acacacttct acaatctccc 120  
 cattntgatg atgtcaagaa acgcattcat acaacattca tggaaaaata taaaccaa at 180  
 catgaagcaa gaacatgaa tataaaaaacc acatagtcaa ataacataat taatatttgt 240  
 tcaaacatat catgcaaata aagaaatagt aaattgttca aatgtcataa taatatagat 300  
 tatntggata agtcactaac atctatcagt cctaattctc ttctaattgg gtaaaaggta 360  
 tctttactta gtggtntttt aaaatgtctg caagttgaat tttagtatct acaaattcta 420  
 aaacaacatc accttntaga acatgatgtc taat 454

<210> 12701  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12701

ngagctcact ggtgctgccn ctacanagcc nctcggaact tgtttcggtc tcatgcttcc 60  
 tttcangccc tctntgtttc ctgttccaat gcttcgggtg tggccacatt gacgtctctc 120  
 aactcattgc attctttntg gaccttgatg gccattgtct tgaacctttc cttgactgct 180

tgtgcctatt caagtttggc attcaaggct tgcacctctt cactctcctt aagggtttca 240  
gcctcttcct cacttgaaac ctttagcttt gggagccaat ctaactcttg catccgagcc 300  
ttcagccact tgtgatagcc accgacgac tcattgctgc ttcccctaag ctcatatcc 360  
tttctttgca ccattgctca tgcctttcga accctttgaa atatccttgc attgngatca 420  
ct 422

<210> 12702  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12702

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atattggtaa tcgattacta gagtatctaa atgttgaaat tcaaattcaa ttgtgaagag 120  
tcacatcttt tcataaaatg ctttgtgtaa tcgattacat ggttttggtta atcgattacc 180  
agtgacaagt tttgaataaa aatcaaaaaga tgtaactctt ccaatgggtt tctcaagatt 240  
ttctcaaggt tataactctt ccaatgtttt cttgaccaga catgaagagt ctataaaagc 300  
aagaccttga cttgcattnt aagtacttga tataactttt catatatact tttaaacct 360  
ttgaatctct ntgaaccatc atttgaactt cttcttcttc ttcttccttt gtcanaagct 420  
ntctgagttt tctgatttcc aaaccttggt atttcac 457

<210> 12703  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12703

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gtaaaggtag ataaggatac aatgttgtca caatgactca acaggaggct tcacaagcac 120  
atattatata ttaaacaaca caacatgata ttttcgtac atagaaaccc acagacaagt 180  
tcttagagtt acacacccaa aaatgaacat gatgagggtg ttgcaagagc acaataaaac 240  
tttcattaaa tnggttagag aaacaatatt agcttatgac aatgcttcga aaactttaag 300

attgttagtt gttgcgccaa atctcaatgt ctctacttgg aagggatatg atatcaacaa 360  
 ttattccttc tacacanaat cacaagatga taaaattgtc gtgcggaaca gcgtggtcag 420  
 tggcatgct taattttatc 440

<210> 12704  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 12704

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 tggttgaaaa taagaatttg ggtcttaaaa aaaatataaa tttattaaat ctggagtaca 120  
 gttaacaag ttaaagtttt aaaaaatagg tgaggtggac caatcgggaa gaatgtatta 180  
 gcggaatcta atgatattta ctctattat attctttctt ttggcttgac tctgctaatt 240  
 attaagtttc ttttaaagat gtcaccgat tgtttgatgg gagagaagag aaaggtgtaa 300  
 aactcacaaa aatttgaaaa tttcttcac ttttcttctt atttgatctc aaccaaagac 360  
 tctgatctaa accagatcaa ggccacctga tccacacatc ctctagataa gggaaaaacg 420  
 aaagagaaga gaaaatgaga aatgcatgtg aatg 454

<210> 12705  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 12705

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 cttcatcaca attcactgac agacctcaac taataggaat atataaatat gaataatctc 120  
 tttattatta attaataggc catagacaag cgcctaactg gccttgccct aacaagcctg 180  
 gtgtctttta cagtaaatat ataactccta ttttatacaa caacaagggt ttaaaactacc 240  
 caaacttttc agaataataa tacatgtata taaagaaaac taccagact ttgcaagata 300  
 taaacacatg tatataaaga aactaccca cgagcaaac taataatata atcacaactt 360  
 atgtattgga tgggtcacac acgaaccata acataacgta cacaagcaca catgcaccag 420  
 gctattctta caaataatac tacacctctt cgttcggcgg cctgcattct ataattggca 480

tctcatgat

489

<210> 12706  
<211> 440  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12706

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gtttcaataa actcatagtt ttgtctgcta ctcttctcaa tcaaatgaaa tagttaagtt 120  
tggtcgctta aaaaaaactc atacttttgt cttattatta attttcgtat tagaagttga 180  
tataaaagta tgttggaata taaaataaaa tatttaaatt tgcaatgata gatagttttt 240  
aacgatcaaa ttataattat atttaattaa ttatttggtc ttataattc tataatttat 300  
acattctagt ttctatagtt cgaaattaat ctttctaagt ttataattt atatcttaat 360  
tctctgggta gttttatagt ctaaaattga tttatctagt tcttggaatt catattctaa 420  
ttctntttta gctcttatga 440

<210> 12707  
<211> 372  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12707

attgcgaaag cccactcca tcattaggat tagtacctga catctcaaac aaacaaatca 60  
aacgtaacaa gacaattata gttgttggtt gaatacctca cccactcaag tgtatcacac 120  
aattatggct nttctctaatt gaaacactct tgccttttac cactctaatt ccccttgagt 180  
tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat atgtgtaagg 240  
taaggctaga gagacaagga aaagggttaac caagaaaaag gctaacaatg tttttaggca 300  
caaatgaagg aaataaaaatt cagaatttag gaattcaagt aacaatcctt catgcaacca 360  
atatattacc tt 372

<210> 12708  
<211> 463

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12708

agcttgctta tgtctttacc tttcctaag catgtatggc aacacatcac catggacttc 60  
attgaagggtc ttcctttctc ttttggtaaa caagtcattt atatagtagt agataggctt 120  
agtaaggcaa ctcatctcat ggccttatca catccttata ctggtgcgga tgtggcccaa 180  
tgcttccttg ataatgtctt taaattgcat gggtttcctg acaccattac cagtgatagg 240  
gatcctgttt ttgttagtca cttttggaag gaatntatgt cctttcaagg gattcaggta 300  
tagctttcta tagcttatca cccacaaact gatggccaat cagaagtggg gaatagggtgc 360  
cttgaaacat atctcagggt catgtgtagt gactcttcaa cacagtgggc ccaaagtgtg 420  
cctcttgctg aatgggtggac aattccactt accacacatt att 463

<210> 12709  
<211> 507  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12709

gtagctntag ttngttccat gttgttgctt cccttatctc taacatattg ttccaacaga 60  
tcttggtcga gttaaagggt atcctgggtgc ctcatctcta acacaatcaa atcctaagat 120  
tgngtccaat aatggaaatg aaatgacaaa ggataaatat aagccatatt tgaaacacat 180  
tgtgaatggg tctagttcta ccaatgggtat agttgttggt aacgtangcc cacctaagggt 240  
taggaaaacg gttgtaacta actctaaagg aaaccttcca tagcctcaac aaggcataca 300  
cccctaata gtaggttaatt ctaaaaatat tatttagata aggtcaaata aagtctttgg 360  
taagactaat tacatggaga ttgaanagggt gttgtgtcca acctctaata nggaacttct 420  
tgcccatatg atcgctcta aggagaaatg attcgggtccc aagatatgag gggttcgactt 480  
atctacacc cactgtttctc atggata 507

<210> 12710  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12710

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gccc aaagaa aaggaaaaag gggactggga accatgctca aagcaatata aggggcanag 120  
gtagagagag aataaaaaatc taacgtgccc cggtgccaga atgcttcttg ctatgtgaag 180  
gtatggggga gggtcattat acgcagcctt agccttgcat atgcaaagag actgtttccg 240  
gattctaacc catgaccaac cagtcactaa ggtgcaactt taccattatg ccagggctct 300  
tcctcaaagg tagagggaga ataatcagaa gaaaatcact caagtttact ccacctctaa 360  
gccc aaagaa cagaggagga anaaataaac catgctcana gaagtgcang tggcaacgga 420  
agattataaa aggaaacata ttttagacag taagtagata 460

<210> 12711  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12711

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aactctcgta aatgggagaa aaatgttcat ctaaagcata caagtcccta atattatcaa 120  
ttcctaaaat ttaagctcct agggagcaaa acaatgtgtg tctcctagag agggcatcag 180  
ctaccacatt tgtttttccc tttntgtatt tgataacata tggaaatttc tctaggtact 240  
ctaccatttn tgcatgcctc ttgtttaact tgctttgcc tctaattgtac ttaagtgatt 300  
gatgatcact atgaatgaca aattccttgg aaacaaggta atattcccaa gtttggaggg 360  
ctcttattaa ggcataaagc tctttatcat 390

<210> 12712  
<211> 617  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12712

tcaccacaca acntncactt cgctnantat actctcatcg ncgntngntg antgtgcgac 60



gcataggaca tataacgtcc ccacgctgag caactggttg tgtcgacgct acgaacggcg 120  
aacnngctc ggacgcgcg atcggtatag atgactgcag gctgccagcc tggaattact 180  
cttatttata tectctccat gctcaacaat accccctcca tagtgagcaa caccatcacc 240  
atcataccgt caattagcac tattctcggg gaaggtagtc ctataaatcg ttgagcaggc 300  
aagaatgggg acaggggctg atcgcagaag aaccgggtaa tcaactggagg aactaccacc 360  
gctgctacag gtagaaantg ggatcattct gctaaaccag gcctaataa ggataatata 420  
acttcgccga aggtgacaat acgntcccta tgcttgggag atacgggaca tcccgacaca 480  
gctgatgggt agacataggg gcgctaccaa tcaaaagaat tgaggctaca acacgcacgc 540  
cgatgagacg acgagcagca tgtctgtgac tccttacatt catcattgct acggcttaat 600  
tccgcatcgg acaggcc 617

<210> 12713  
<211> 463  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12713

tttcgcacaa gcacgatcaa tatcgagggtg atgggaggtt tcaaaagtgg agcagcatat 60  
gctacaccaa gagatgacag tgcatccctt cttaatagca tgttcatcat taggcattca 120  
ggatgaata atcctccacg tgagaaagga ctaagaacgg ggaagggcag cactccgaat 180  
cttggaacc cgtgaagcat tatatcgaat gagagcacat tatattcatt tacaacgagt 240  
ggtaggatca acctgatcca aactcagatt ccagatttca aaactaagcc aagattntca 300  
agctntagaa ggctattctc agctcaaggc ttcaccatac atatataggc tgggctatat 360  
tcaactcaat angcctttca aatatgctcg atacttgatt gaagcatcat ttgaagatgc 420  
aactaataat ttatatacaa gtagaattta tataaacatg tta 463

<210> 12714  
<211> 463  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12714

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 tccctagctt aaactccaac ttttccattt gtttacggat gataagggtga tgctactttg 120  
 tgtcaaacat catagtgttg aaagaccttt gagaattgag caatacaaaa gtgtgtacct 180  
 tcatcactaa tcaagagtct aggcaatcaa aacctaacaa aaatgtttct cttaagata 240  
 ttaatcatca tctttacatc attggttgga ctagaaattt cttccacca cttaagaca 300  
 tagtccacta ctaccaagat atatctgttg ccacgtgagg atggtaaggg gaccaaaaaa 360  
 tcaattccct aacaatcaaa cacttctacc tctgcatgt tctgtaatgg catttcatgt 420  
 cgtctagata tgttgccgat tcgttgacca atattgcatg atc 463

<210> 12715  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12715

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 tttcgttcaa ccctcttggt aattcagaat cacttanaac tagagaaaaa aattggtttc 120  
 gtgaagaaca tccaagccga ggttcttctg taacgtttcc gtgggtgatt tcacgaagac 180  
 tctcaaccgt tcttcgacgt tcttcattcg ttcttcgtca ttcttcggtc ttgaactggc 240  
 aagttcccta natcgaactn ttcaattcat tntatgtacc cttagtggtc ctcatttgtt 300  
 ttcacgtgct tttatttacg tttcatttac ttttcgtacc cccttttgac gtgctttagt 360  
 catttgctta agttattttc tcgcctaacc aagaaataaa atanatgtca acctatcatt 420  
 tgaattgtaa taccggttag tttctgtaaa ataaaatcca accgttcggg cg 472

<210> 12716  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12716

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 aaaacagaac tagattcatt tcaaattggt ttaacgggta gattttatat ccaagtaatc 120

aaattgattc aaaatcgaat tagtttttaa aaacaaaact ggttttagaga taaactagat 180  
tatgtattgg aggtgattcc agtatttgtg gcaaagcagg gagaaacatg tccttccaat 240  
acattattag tgattatgtt gctcataata tgttgcgcta gctaaatttg agggatatat 300  
aacaaccttt gcttcaacca ttntgaacaa gccacggaaa cgatgtccaa gtccttggag 360  
agtttanagt tgaacgttga gtgagctctgc aaccattgct agctnttaat aatgcacag 419

<210> 12717  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12717

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ccgtgcacaa tgccatatca ccctcaaaca cctgactccc tgcagtcacc tgcaactccat 120  
cgccactata cctaatacata tgcacagtct tctcatacaa aatcggcaca ttctctgaca 180  
aagcctgaac cagcttccca tttccccag gcaaaaagca atgggtctccc cccatatcat 240  
atggatcatc ctgggtcccaa aacgcaagcg aaagatttga caacaacccc gcattcgcac 300  
actccaaatt tgcgagatgc caattaaaca aattcatttc ctcatcactc actgcgtcct 360  
tataaacctg actgaatgtc tncagcgag ccncgagcga cacantccac cgaaacctcc 420  
ncatcagctg cctcagccta ctgcgcttat caagcaaccg attaaacgca gactccacct 480  
tcacatccat a 491

<210> 12718  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12718

agcttgtcat accgctccac ccagtgaac ttcagttgac tggccccata aaatgacaac 60  
gctactagcg aagtcacac agttattgtg ctgtaaatgc aatgtgtgaa gcttggttag 120  
taatgaatat ctaaacaatt tttatttgca aacttaattg gcactaaac cagagtagca 180  
tcaaccaga ttaagaaact cagggccttt aagattgtga atcttttagt gcagaacagc 240

attcaaaatt caaatacaag acagaaataa ggattcctat atgttccatc aaccaacctg 300  
aatttcaaaa nagtagtcaa gggatctagc tgaattgtta accatctttg tttagcttgg 360  
atggcatctc anaattcaag tagtttgtgg taccaaagag aggtttgtca gacagacatg 420  
atgtcttatt agaagtctta gcataagttg tcatgaaaaa ggtatacatg atg 473

<210> 12719  
<211> 487  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12719

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tatagcgtct tgggtcttga tgtgatgtga tattgcgtgc tcattgcttc ttaactttct 120  
tttcgagtta taaatagaag ttagtaaatt gaattgggtg tatccatatac aaatcctctc 180  
tatttttgtt cttctgttta aaaggatgaa tatctataat aacaatcttt gctggttcta 240  
ctcccatact ntatcttctt ttnttctctt ccttattctt ccttctcttt ctacaaccaa 300  
cctgactgca ctgttttgct atttntcana aactcactaa cactcctttc anactagaaa 360  
cttganaaaa tggcacccgat tgggtgtaagt ggcattgngt cgcgtgcaac accatctcag 420  
gtcatgtgat tgggtcttgat gtngacattt ctccacaatc ttttggtgat atttctctta 480  
taatctc 487

<210> 12720  
<211> 426  
<212> DNA  
<213> Glycine max  
<400> 12720

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taaaaagtta ttgtagttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagt attgttggtt gaatttgctc 180  
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtagtt tcaatttgct cagggttcg gtattccatt tcgagcgtct 300  
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360

tcagagcttc tacattcaat ttcgagcttt tcgatatatt acgggactca atcagacatt 420  
cgagta 426

<210> 12721  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12721

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atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa ttcaaacgac aataactntn 120  
tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg aataccgaag 180  
ctctgagcaa attcaaacga caataaactt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagac gctcgaaatt gaataccgaa gcgctgagca aattcaaacg acaataactt 300  
ttactcggga tgtctgattg agtcccgtaa tataatcgaaa cgctcgaaat tgaatgttga 360  
agctctgagc aaattcaaac gacaataact ntntactcgg atgtctgatt gagtcccgt 420  
atatatcgag atgctcgaaa tggaataccg aagctctgag caaattcaaa cgacaataac 480

<210> 12722  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12722

agcttggat cactctcatc attntcctct ccctcctcat cactaccccc tccatagtta 60  
gcaacacccat caccatcaaa ccttcaatta gcactattct tggggagttt agtcctataa 120  
atctttgacc agtcaagaat gttgacaggt gctgattggt gaagaaccgt atattcattg 180  
gaggaactag cactgctgct attgctagat cttgggatca ttctgcctaa actaggccta 240  
gtgaagtata ttacaacttc cacaagttg taatatactt ccctcatgct tgggctatcg 300  
aggactatcc ttatacttct gatgggctag agatatggga tgctatcaag tctaaaggat 360  
attgaacctt caaactagtt agtcaggatg atgacanaga tgcangcatt ntctctgcac 420  
ttcttttagta ttcatacaatt gcctacaact ctaatatata 460

<210> 12723  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12723

tacacaggca gttntaaaga cataaaggga atgatatnnt gagtttgaaa tgcttgagtg 60  
 cattcgaaac tctcatcaga naagaaatcc atatctatga acttaggggc aatgataaaa 120  
 tgagaggaga agagggttgt ctaccgtata cgtttttctt ccgatgagaa caatgaggag 180  
 gagaaaatgg aggaaggaat tggagtatcc tgaacctcgg agtgccgttg gcttctactt 240  
 gaagaaccct tgtgcttctt caatgggttc gctatttgag agacttattc aaaatttcaa 300  
 tcggttgaaa tgaaagagga tgaanaaaga tngaatttgg gctctgtggg atgtgatatg 360  
 gataagaaat gagtaagtta tggctganat acgaattgng aatgaggggt cgcgagagga 420  
 atgagagggg tcagaattca gaatttgaat ctgaattata agaganggat gcgttgaatc 480  
 gatacaaca 489

<210> 12724  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12724

agcttgcagc aatttggtat tgctcatgtg tgatgtagaa aggtttagtt agtgacatgt 60  
 cttgcatggg ctaaaatagg taggacaact tattaggcat atgaagtata gattctcata 120  
 ttctaagcgc caaattttgg taaccaatta ttcttgacat acgcgtactc caaatacttc 180  
 tatttttgaa taaattatth tttattatta acacatcggt aaatcatgag tatgataaat 240  
 agtacttaat ctaaagntac ttgggattca tgaaagatat gtaccttatt ttgattgaac 300  
 tcatttgctc ctgttatagt tagtttcttg gtaacagcca ttagctntcc atatntatca 360  
 acacatggat cttntttgaa gtagtaatac atagcatcta caacatcagt taatttgata 420  
 ggatatctca atgaagatcc aatatggtac a 451

<210> 12725  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12725

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ctctntttctc tctntntctc tcaaccattc ttcattcttc ttcctctntt cactnttgnt 60
cttcctttnt cttgcacana ttntgtggct cgtccactag tgatgatcat ggaagggttaa 120
atactcaatc agtccaagga ttcattccaa gccagggtga atttgagtta tggnttagta 180
tttcaattgt gtgaatgctc atctttntct ttaatcctaa tttcaattnt catgattata 240
aataagttta ggattgaaaa tgaattangt tatgaattta tttcctaatt ntgaaattta 300
atcacagggtt atctggatga tattctaacc taatttgcca tctcaatgaa ttttgggatt 360
aattcaattg aaataactct aatgacattg attgaactcc cacaatgatc attctntgca 420
aaactgtgat aattcatttg cattga 446
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<210> 12726  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12726

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gcaagacatc atattatctg agatttatga aacaaataat aattcacgat ggtagaaaa 120
aattcaaaaag acaaaaaagg gcaaaagtgt caggaaagtg tgtcattntc ccatccccgt 180
gaagtcaatt gcatgaggat tacttcccga gggagcaaca aagtttgtct aatacatcat 240
gtattaccat cagtttacag cacaatcatt tttcccataa tagcattccc ttaattatct 300
atgtagcatg tgattgtgag tatatcaa atgcatacaa gtcgagtata caggacatgg 360
aacactccat taaccaacat agggaaacaa atacctgcag agagacatta tgttccctta 420
tgccagtata ataatg 436
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<210> 12727  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12727

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 ataggtgata accttggcaa gtcacgaaga atgggccccg atcatggatg tccttgcgct 120  
 cttgatcttc agagtgggcc tttttccaaa tgtggatggg ttggtggact gcgcaatgat 180  
 tgatgctttt ctgcgctttt acaccacaag gaaagcccgg ttgtcgctat cttatccaat 240  
 ctatatgaca cattcgaccg aagatgcgag aagaactgng catggatcgt ttgctataca 300  
 ccggccctct acgtatggct ggttcac 327

<210> 12728  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12728

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 tctcgttttg gttacttttc ataccacctc ttgtcggtgt taagccgtn tacttaagtc 120  
 atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tatattatcc 180  
 gttaaacttcg gttaaaatca attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240  
 ataaagaggt aaaaaaataa tataataatc ataaaatata ttttttagta aaataaagcg 300  
 gaaaatcaat cggacgtttt ctctntggga tttctcatc ttaattgaat tgattaataa 360  
 ctaaagtga actaagggt aaatcaactc gcctagtcaa gtcgtccac aataataggg 420  
 ctttgaagtt cgcatttcaa tttctcacta agtaaa 456

<210> 12729  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12729

ntgagccana atcctgactc accatanacc ttgaccaggt gtgagaatgt ctatccttac 60  
 cctcggaagc ggaaagaata gaagggaat ttccaatcaa agaaaaggaa agaaggaaga 120



tttccaatca aagagaaagc aaaaaaagaa aagaaggaan attccccaat caaagagtgg 180  
gagaaagcaa aaagaaaaga aagaaaattc ccaatcaaag aatgggagaa agtaaaaaag 240  
gaagaagaag aaggaaagaa agctcctgat cagggatcga agganaacag aagatatgtg 300  
cagaaaggtc tttgaaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa 360  
aaagaaggag aggaaacca 379

<210> 12730  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12730

gcactgcnnt ttgatgtgtc ntacatcgac taacggcgaa tgcagctcgg acccgggatg 60  
ctaacagacg acctgcngca tgcacgcagg ttttgctata tatacagaag atgacccgcg 120  
ctgcttaata caacacgaga tagtgccacg atataaaagc ccattgtgca gacttgtgcg 180  
ccacacgaca attatctacc caggcgctcg cacactttat gtgaggttat atttcttctc 240  
cggaaccctt taaatatcca aagggaacta caaccaacga gcggtaagag gtgtaagagg 300  
gggaattatt aacaaccata ctggcgtaa ggaacataga ttgcgcaacc ggggcttgtt 360  
aaacgaaggt tgggggtcac cagcagcgag ttaatttcta taaaccacct agaaattgtg 420  
gggaatgcct ccccttcat attgccggga ataatgaaat tagaggag 469

<210> 12731  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12731

tcacaattcc acaattccta taataggcct aactcacaat taggtccnca gtggagtgcg 60  
caactgtcgc aacgtgccct ttgcggggcg agcgagggcg aggtcacggt gtgcgcttct 120  
caaatgagga aagggtgcgc gagtcgccac caacgatcat ttgtggaaaa cgtcgggaaa 180  
accgaatgac accggtcaaa atgaaaattc taagttcggg agttgtattt acgttcgagg 240  
aaggatttag cacctctcac gtttgtctca aaggataaca gcctattntt tagaattgtg 300

aaattgtgtt atgttacctt ttatttcttt tttatttgtg aggtcgacaa aagcggngct 360  
 nttgtccta cgtaccctgc tttggagagg aaatcagacc gacgtagttc ttacttangc 420  
 acgaatcaag tgattctttt tac 443

<210> 12732  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12732

agcttgagta gataattgat ttgccttcta tttgatatct ttgataaatg aggcaactgc 60  
 atttgtaagt tgaaaatttt caccattgga ttggatggaa attttgtctt tatatttcca 120  
 gctggcagga gtcatattgg gagctcaatt gtcattgaa ataaagtggc actatgagcc 180  
 gtaatatcta aatcaaaacc aaaatgctaa gacttgtatt accttttact tcatgctttc 240  
 ttgatgctgt tgttccctgt gtctgtccct gttttatctt ggattaaaat gaaaatggct 300  
 gtctgtact acgctgttcg cttattcttt ntttttttaa ataaagtaaa atagtagaat 360  
 ttatgctgtg tattttactt tatcatctac 390

<210> 12733  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12733

aagcttcaca atgctaactt gaactcagcc tttntctcca cattaattaa gcttttatcg 60  
 ttccttgctt ttttgcagga ttntgcatat aaatggaatt actgtttatt aaagtttata 120  
 atgcatgcac tcgatcggta tgtattatat cagcaaagcg taccttaggt ttgattctta 180  
 tgggagcctt gactaattga cttntcagc atatataaga agatatnta tatgtaaata 240  
 attnttgat cagaatgtgg cattagtga attaaaacat aattcgctga catataattn 300  
 tatctagaac tgaaataact caacattaac ttcggcagtt gggttgatgt attggcgaat 360  
 tgatttgaaa ctggatatta gatttgtgtg tcaactcagaa nanaaaaatt aacagaagtt 420  
 ngaaattcca caatntacaa tcatnnttgg tgtatntact tattntctta 470

<210> 12734  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 12734

agcttgccac ctttctctgc caagtgagcc agctattttg caccctctgt ttactaaata 60  
 caccctcttg ctctttcttg gtgtttcttt ttccgctatg ttacgaaact ttacgcaatt 120  
 cgtaacgata cttgttttct ttctgtaatg ttacagaacc ttacggatca cataatcatc 180  
 cccttttttg gcttctggga tgttacggag cttacggatt gcgcactaac acttcctttt 240  
 gacttctggc atgtcacgga acttcacggg ttgtgcaaca atgctttctt ttgacttccc 300  
 gcatgtcaca gaacttcacg aattacctaa cgatgggtgc caagtacctc gaag 354

<210> 12735  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12735

tctttgggac cttgaacagg caactaactc ctctntcaga accatgctat gtgctcgcga 60  
 ctggtccttc tcttcccttc gcagcttgag ttactattg ctacccacac gagctccgcg 120  
 aaatttattc cagccatact cttccttgcg agcctcttg gtctcttggt caagggctct 180  
 tgcggtagtt gcattctctt cccgtaacct ggacactcc ttccgaatgt gtgtagtggc 240  
 caacttgaac ttctccttgg caagtctcgc ctttctaact tcgcttttga gagcttggac 300  
 ttcttcgtcc tgttccggtg cttcaaaact ctcttcgctg acgactntta acttggtgag 360  
 ccaatctaaa cctcgtatat gaactntcaa ccattcatgg taccaccaa tgatgccatt 420  
 acgaatgccc ctaagttctt gatctt 446

<210> 12736  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12736

agcttcttat ccaaggcaca ttcttgggtgg tgaaactcct tcttccatgg cttattccct 60  
 tgtggatggt gcctcccctc tcctcttctc ctttgccttc cgctgcatct ccatggtgga 120  
 aaataaccat tgaaggacct cattgaagct caaagatgca gcgttcatag aagctccaaa 180  
 agcaagcttc cctcaccata ttcatgcatt gcattttgca taagtcattt catcaccatg 240  
 catatgcac tcataaggttt tttgcatacc atttgttttc atgttttagtc atgcatgac 300  
 cttgcattnt cctctngcaa acanaagcaa aaaaggaagc atgaaaattc atgctgcatt 360  
 cttagttgca tatgttcggt accatgaacc aaccatgttg ggatcataaa ccta 414

<210> 12737  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12737

cggttatctc cttcttcaact acatcaagaa tcaccggggt gtgtcttctc tgtggctatc 60  
 ttactgggtt agctccatcc tctaaattta ttcatgcat acatttggat gggctaattgc 120  
 caggaatgac caccagggtc cagcctatag cttcttatg attcttgaga atagacaaca 180  
 acttctctc ttgctcatca gcaagggagg caaatataat cactggaaaa gttctgctat 240  
 catccacata agcgtatttt aaatntgatg gcagaggctt caattctggt gtggcccgt 300  
 ggatagtggg agaaagagat 320

<210> 12738  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12738

agcttgaatt atttgttgtt taatttgcct gttccattan gcttttaatg tctctagagg 60  
 ttacttctc gttgacatct tttgtcttga atggaattgc catgacagg atgttggttac 120  
 tgtctttgat atttggtagt tgatattgtg ttgtgggagg taattccgac tggattaact 180  
 caccatcctt cacttgcaa tttgttatga catttgttgt tggattacct atgatgtctt 240  
 gtttccaagg gtagtctata tcctttctga tggcataagc atgacaccaa tcaaagaaaa 300

ggacattaat tntgactctt tcgacaaatt cgtagaactt gtcttggatc tgttttctgt 360  
 ttg 363

<210> 12739  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12739

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 aaatgttaaa caactaagaa gcaaattaaa gcagacctca ctttttcaaa aaaaagattc 120  
 gaaagaattg aaagttttga agaggcaata tgcggcacta ccaaaacaag aaaaatgtag 180  
 catttaccag cagtaattct tattagctnt tgtttatttg atttgggtaa tatagatagc 240  
 taccaagata agcagaattt tattacaaaa gatttatcta ttgaagtctt atttattttt 300  
 ctttacataa ttatgcatca tctttcttgt ttttcgtact ttagaatttc ataccgtata 360  
 gcagtatttt tatgagaaaa catattaaca tctgaattgt taaacattaa aaacatgtac 420  
 acatgtatga actntntgcg tgaaagtatt ttgatatttg aattgctaag atatata 477

<210> 12740  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 12740

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 atttccattc acaggttttag cgacatcaac atcatcactt gagccctcac tttcaatggt 120  
 tccattatcc agtaatatca tgccctctttt atttggacat tgagaagcaa tatgaccaac 180  
 tccttgatac ctgaaacatt tgatatcatg ggatctagaa gatgaattaa tttccatttt 240  
 accttttaggt gcagcacatg aatttttggga cttagcttca tcttttgact ttgtcataga 300  
 attttctgtt tgccaatttg acttccatga ataagtggaa tcaaatttgg aagtactctt 360  
 agctatcaat tgccctctcca cttgaataga tttatgcagc aagtcctcta tctccacata 420  
 atga 424

<210> 12741  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12741

tgtagactgg ctagacatga tacatgtcag ggtttggtt gtttcaagga taaaatttat 60  
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctgggtcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca tttcgggctc ccggagaaat ttcacagcat 300  
 tcacccttca ggtgtagaca cattttccaa aaattgggta tgatcaatga attcttttca 360  
 aagaaaagtt ggaaatcatc tcttttcaaa agcatgtcgg ttnttcagct agacaactta 420  
 ttattctttc ntctctcttt tttttatcat tatcatgtgg ttatttcttt ctctt 475

<210> 12742  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12742

agcttatttt tatatttata tagcttgata aaatagcttc actttctacc acacattaaa 60  
 tttaacaacc ttctggttca gggtttcaac ttttcacctc attaaaactc gtcctttttg 120  
 cttttctcct acttgataga tttaatccta tagattgnga ttagttgctt gggttttaat 180  
 ttcttccaaa acctttaaaa ttctggattg atgtctagga gacaaccatt ttagttattt 240  
 caagggcaac ttatattgta catgccaata tcagtcttct tacatccagg gtcttaagta 300  
 gcacattata gtgctgttat agtggcttta cggcccatgg ctgctgccat agcatagcan 360  
 gtaagtgtat tggccctgc agacagtat 389

<210> 12743  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12743

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ggactaattt atgtagccaa aagatttact ttttaataata tacagagaat aagattacat 120  
caaaactttt ctgcaaaaaa tccacataaa attcagcaaa actgcacatg aattatcttg 180  
gttttttagcc atttcataaa caaaatgtgc tagcaaaggc catctaccaa gctttgggtg 240  
tgtaaagact aaagaaaata gatctatttc attacttaat tcagagttcc caaacaattt 300  
caagcctcag caataatcaa gtaatcaact ataactagta tacatagttt aaaatatgcg 360  
gccatgtgat accataattg tgtcacatac ttatccactt tggatactta gtatctaata 420  
ctctntaaat actnttaatt gcttctttgt ttcctagctc ctaattaagt gt 472

<210> 12744

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12744

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atgtgagact tctaacagta tattactttt ctagtgtata atttacaata acatgcatgt 120  
aagaagtttt attcatgctc aaataaaaag tagaaaacta aaacttcttg gatgtgggtat 180  
catcagccaa gaaataaagt ctttttaaagt cttgtttttt atggaaacta ttatgcaact 240  
caaatatgaa gtaatctata gctgttatgg tcttccttgc ataactctgcc tcccacagtt 300  
gttattcaag agccagacaa tgtactcatt ttctgtaaat tcttcacgtg gtgattggat 360  
ttggtctttc tgactgtcga ccttattc 388

<210> 12745

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12745

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tcaaagctag tttattgagt ttggataggt aagagaagct ctactttgat tgaattcttt 120

gtttaagtgg gtgctacttg aaatgcttgt tttgtgtgtg caatgatttg tatgtatggg 180  
 atatgatgtg taatttaaata tgggttaatt tagaagtcac ttgacgtctt aagaaaattg 240  
 aagttatgca aatgtttaca cttaaagccaa gagtgattnt cgcttaaacg aacatgtcta 300  
 ttaagaaata tgggtgttgg attcaagctt aacgtagatg aatataggct taacatgggt 360  
 g 361

<210> 12746  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12746

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 ctcttcaatt ttgttcttcc ttcttcttgc acaaatttca tcgctcttcc aatgggtgatg 120  
 atcatggaag gctaaacact taatcaatcc aaggatccat tccaagcaag gctaaatttg 180  
 agttctgggt tagtatttca attttgtgtg aatgttcatc ttgttcttca atctattttt 240  
 tgattttaat gattatgaat atgcttanga ttgaaaatga attangctat ggattcattt 300  
 cctaatttca aaatctaate acagatngtt tggatgatat tccaacctaa attgcaatct 360  
 caatgaatnt aaggatcaat ttgattaaac tatttctaata gacattgact aaac 414

<210> 12747  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12747

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 ggagagaata ttctagggtt ttgcattttc agtttcgtgt tactgttcac gtagcaatca 120  
 taatttcatt ttttgcttca aattgcaatt tcgttttcta cttctgcctt tgaattcggt 180  
 ttcatttctg ctgattaatg gaaggctgag tttccagtgt tgttttctct tgaggatcaa 240  
 gcacaactct ctttgagggt ttgctattac tattgaattc tgatcagttt ttccccctca 300  
 ccaattgctc tgtatttgggt gctgttaatt catgcatgct taatgcttca ttaattgtct 360



ctgcgcttaa tttacgttca tgcttaatga tcagtttcgt tcatgcttaa tggacatgtg 420  
agacggatta attggtggat gtgttactta ctcacataat ga 462

<210> 12748  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12748

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ccaaataaat aataaagtca tctcgactca nagaaagtca tataagtctc atacaattaa 120  
tatagaacct atatccta atgtcacatcct atcagagcgt ggtgttcccg tgtcctctag 180  
catgagggttc ttcatagtca tccacctatt catctgtctc cccgaacaca agttcaagat 240  
catcacagga tccaaacaca acaacacaca gggagtgagt tatcacattc ctagctaata 300  
gagaaacaag acaattaaat atacatatta tataaatgag ataccactng cttaaacata 360  
gtcacgtaa cttcaccact tcgtcattca naattcactg ttcaattatc aatcacat 418

<210> 12749  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12749

tcacctgcaa ctccaacccg ctttatatcc taacaacagg ttatctttat gtttaactnt 60  
aatgtttgtc cgaccataa aatatgaatt atgtacaaca aaaatgttaa gaatctttta 120  
tagtggtcac cattgaaaat gctcttaaaa gtgaacatat ttagcatata taattatggt 180  
accaaataat aaatttttta caaattaaag gtttactcat aattctttta gacaattgtg 240  
ggaagggttt tgcacatgctt ttctcccttg caaatccaat acatataaga tctctttcga 300  
tataaagtag aagtgttttt gagagttttt ttaataaaat aatttatatt tataatagag 360  
aaactttcaa aagcatgtat gaattgtatc caaacaatt cctaattgggt tctagagtgc 420  
acaaggttgt aatgtcaagc acggtacaca agttttctta 460

<210> 12750

<211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12750

agctntgctg atttggctct cgccggcaaa aggatcgaaa cgggtctgaa aagaggcaaa 60  
 tttgatcatc ctgctttgat gaatgagaaa actggggcaa atgaagagga tgagaatgag 120  
 gaaggaaacc atgttgaggt tgtcattcct acatggccaa acttcgcacc agcccaacaa 180  
 tgtcattact cagccaatat tagttgttct cattaccacac cacctagtca cccacaaagg 240  
 tcatccctat atcaaccaca aagcctgctc gccgcacatc cgggtgcctaa acaccacctt 300  
 tagcccaaac caaaaatgaa ttttgcagca aatagcctgt aggattcacc ccanattccg 360  
 gtgtcatatg ctaacttgct cccatatcta ctcgataatt caatggttgc tataa 415

<210> 12751  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12751

tctccgaagg gcatggttat ttccagtttc ctgaaaatat ctaagaatct ctccaaatgg 60  
 tggtccttct ccttcttggga aggtaccaca ggatatggta ctccacacc ttcatccaca 120  
 gctntttctt tnttcttctc tctagcctgt tcactttctac tcctctcgtc attcttattt 180  
 ttttcatntt ttttcaattt ttttattttc tttttctttt tctacttctt tntctttntc 240  
 tttttcttgg tcattaaatt ctgttttctt gaccattatt tgtttttctt tttcttgatt 300  
 actttcacat atcacataat ctttcttttc atcagtgcct ttcttttcag cagctntctt 360  
 cttgggcaca acactntcct catcctccgc ctccacaaac ctcttactcc ttgtcatcac 420  
 agctntgcat ttctccttgg gaattttttc t 451

<210> 12752  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12752

agcttgtata aagtttccac ttccccgtgt taccggcaaa gagatatatt tagtttagcgg 60  
tcaaccacat tgcaattata agtgtatatt tggaagaaga aaaaatgttt ttttaaataa 120  
aaatattatt tctcatcac gagtgagaaa taacacaagt tcttggtccc ctttttattt 180  
atattgctg actgtgactt agccgcacat gcaacagata aggaagagca acgtcatgcc 240  
ttcacttttc aatactgctt ggattcagaa aaaaaaaga gtgcanatat tcctgttttg 300  
gagggagtgg aggtttcacc tgattagcag tttaggttcg gcgaaacagc cagaaatgaa 360  
acacagtgaa ag 372

<210> 12753  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12753

tgtctcttgt gatgtgaaga cacataggaa gtccattgng tatttgtaaa cattccagca 60  
taatccattg actctagatc actttcagaa tagtctactt gtattgcatt taaatgggtt 120  
gcagcctcca agctccctgc actagctgag cttctcaatt gagaggggtgc atcagacgat 180  
gtgcatgtta gcattgcatg ccacctgctt gcaacggaaa caatattttg agctctgtga 240  
gaaattcttg tcgcagcatg cagacaaata atgatgcccc ccacctgaac aagtgtggat 300  
acctaaaaga aacaacagta caaaaagaaa tggtgaaatg aaaggaatta gttccttcaa 360  
tctaaatgcg tattaatact ttgaacataa agagttggac ttacagcana atctcca 417

<210> 12754  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12754

agcttagcca actaatccaa acttttggtt ccatataaga agtgcataag gatgaacatg 60  
agggactcct tcattgatga gtaacaatgc attttgagaa tccgactcaa gatgatggaa 120  
gtgtagccag tatcatcgc gatgcaaagc ctatgataaa tagcaaacia tttttcattc 180  
aaattaatat ttaatgtana tccacgatta tcattactag ttaatcacta ttggtgatgc 240

tatatgagtt ataagattaa cgtgatgatg gttgaaggaa gaaagagaca aaaattgtcg 300  
gttaaataca ttttttaact aaactatcaa ttaacaacta tattaata 348

<210> 12755  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12755

tctcttttcc accacatgtc gtcctcaaac cgatgggtcaa tctgggcata agaatgctca 60  
ggctaaagtt gagtatgaga aaagattgca tgagcaagtg aagatacaaa gaagaatgaa 120  
agttatgcc aagcaagccaa caagaacaag aaaaaattgg tacttgaacc aggcgatgat 180  
tatgaacatt tgagggcaaa tgttttccaa gaaggaggga atgatgaaaa tcctaaaatg 240  
gcacaaatac aggacctat gaccacgagt aggaccaaac agtcagtga tataccctcc 300  
aataattggt atcagacata cttaacaagg cccaatggg anaagatgaa ggctagagg 360  
caaagacact accaagaata ttaattggtg cttaaagacc aaactaatnt gaaagcccat 420  
gtcaaatacg ttctttttta attatatttt ttctattt 458

<210> 12756  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12756

agctntctcc caagtcctaa atgacatttc aagctagtat taactcactn taacctccat 60  
ttaccacaga attcagactt aaccttccaa ctctcaaagc ctactcttt ntccactcat 120  
aacaccacat tctcactntc caaccctagg ttaactctac atttcatctc taacagtttt 180  
ccatgggcaa tttcagcata caaacatcat aaacatcatc acaaaaccct aaaacagaat 240  
gggtatgtct aactcatcca aacatggcaa tttcaacaag ctttcaacaa gtttcttcac 300  
aaataactat catgaagcag aaaactagca agactaccca tcatatctnc canagcccca 360  
tacnccacga aattaagaga gaaagaagtn cacccaaacc tgaattttcg aagtcccat 420  
c 421

<210> 12757  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12757

tcgattacac aagtcttgta atcgattacc agaggagatt ntcagaaaat aatttccaag 60  
 agtcacatct attcaaattg tttatgaatg gccatcaaag gtgacttgga aacacgaatt 120  
 taaagagagt tttcattgcc caaaaagttt tctcctctca aaagattaag agtttttctg 180  
 aactgaaatg tcttatcctc tcaaaaagat tccttggtca accacttgca tattcaataa 240  
 ggaattttga ttgatcttca ttgtacaatc tatctttttt aagagagatt tcttcttctc 300  
 ttcttcttac ttctgaaaag ggattaagag actgagagtc tcttattgta gaggattctt 360  
 gaacacaagg gaagggttgt cctgtcgtg gtcagacttt gtaaaagntg ttttacaag 420  
 agagtgganc atctcaagtg ggtttcttga ggactggacg t 461

<210> 12758  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12758

agcttggtata tgaacaaaat tataatcgga agctngaagt taaaacacaa gttgaaccaa 60  
 aatacaccta gagcatattc gtgatagata gattatgtgg ggtatttcag ttaaatttta 120  
 atttttttat tagttgaaaa ttttatttaa ttgtttaata aataaattct ttttaataat 180  
 tcttaatatg ttttagaatg ttaattcaac taacattttt ttattagctc tttatatttt 240  
 cttcactctt atcttttatg tattttattca tttttcttat tactttgttt aaatacatca 300  
 taattttatt attttacgtg tttcaactac ttttaaccgct agtgtaatta aacactttta 360  
 attttataag ctagcgttat aacattgccg ttattaactt ttaagtacca cttgac 416

<210> 12759  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12759

acaattttatt gtgaattttg ttaagtacat gatgtatagt atanttttat tttgtattnt 60  
caaaacaaaa attaaataca taactaanat atgattctac tgtgatcttt gttgaaacat 120  
aatcatattn tggttataat taaaaagagt aataaaaaag ataatgtgtg tcgttattaa 180  
tataatttat atcaaaatta atttaactag aaaaaataat ttaattctac agctaatttt 240  
ttgtgaaaaa atatctaacg ggaagacggt ttcattggtat aaaaaaagtg caaaaaaact 300  
acacaatgaa natttgtttc cattttggat ttatacacag aaacatgttt ttgcaaaata 360  
tatttctca tgtatttttt tggacctctt tcttatataa cgganacatg tattcattgt 420  
tatgtttgag actgacnaaa tatac 445

<210> 12760  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 12760  
agcttttact cttttctctt gcatacttgt tacataattg tgggacattg cttttcttgt 60  
cagttgtaac attgacatat atatatatat aaaagatgta acaagttagg cttttatcaa 120  
ccctatgatt ggaagaatag ttgtgcatca tattatatta tatctactac ttccacttta 180  
tccttactag ttatgactac taatagtaaa cgtgatattg ccaaattcaa ctgatataag 240  
cattgctcag atctgagtaa cttttcatcc ctgcgttcag tctgagccca ataatgaatc 300  
aaatatgaga gcacattgaa attcgactga atatgaagca tccgtattcg gtgcagtggg 360  
ttacagagac tgaaatgcc aagaatagctg gatattttat tccac 405

<210> 12761  
<211> 458  
<212> DNA  
<213> Glycine max

<400> 12761  
atgccttgcc ttgtctttgc gaatcatcta tcttatctaa taacaagaat attacaattg 60  
tcaactgcgta tgttgtcctt ttcggaaaaa tcatgacctg atgcatgggt gatgccgtaa 120

atactatgct taacataaac ttatgtgcaa actttctagc taagaagggt gtgtctcaat 180  
 atgttaatct catttcttga aactctctac acagagtgtg agattgaggc ttgcgggtcat 240  
 tattgttggg aacttttcgg ggttgttgca gttcctctaa atggcatagc taatactact 300  
 attttctagt aggaactgct aattcatgct tattatggaa aacaattaaa cagtactact 360  
 atgaatctat gatgtagtgg agaccttaag aactaagttg cggttcttga cgttgctgaa 420  
 tgtcataaat tcagtttata atgatatatg agatgtta 458

<210> 12762  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 12762  
 agctatgtgt tcgatggttc tataacatct atccccaca tggaaaaagg ccaagggtgca 60  
 gacataacat tcagaggatg tggcggaaca ttgacattgt ccgcgtatgc ttgacattta 120  
 tgacatttgc ttacatgggc acaacaatcg ctttccatag tgagccagta ataaccggct 180  
 ctaaggatct tcctggccat agcatgccca ttggcatgtg taccaaatga acccccggtg 240  
 attacctcaa tcatgtagtt cacctttttg gcactctacgc attgtacgac ggtcatgtcg 300  
 ggggttcggt tgtaaacgat ggtaccactc acatagaccg cctgggttctt acgtaataac 360  
 ttgaaaatgg gctcacatgt aggggtgagt agtgagataa a 401

<210> 12763  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12763  
 nttcanatgg gtaaaaggct cacattcact ttcttctaca ttatattcaa acttgtccaa 60  
 ataaataata aagtcacttc gactcaaaga aagtcataata agtctcatac aattaatata 120  
 gaacctatat cctaattgtca catcctatca gagcatggtg ttcacgtgtc ctctagcatg 180  
 aggttcttca tagtcatcca cctattcact tgctcccccg aacacaaagt tcaagatcat 240  
 cacaggatcc aaacacaaac agcaaactgg gagtgagtta tcacattgct aactactaga 300  
 gagaaacaac acaacatata gtagccaaat acaatttact tagcatatct cacattattt 360





<210> 12766  
 <211> 644  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12766

cacaaccca agcaaccaca ttcgcgacgc gagacaacgt gaaacacnac aaccgacaca 60  
 aacacattga acatgtgaac cgtgaaacca cgcgaacacg ggtacgtcca gaggagactt 120  
 gagcgcagac ctgcttgcac gtcaaactac tattcaaagc gacccaacg agcgagaaca 180  
 tcacgcgaga cacctcacgc gcaaccgaac acatacacta caccagacgg ccgcaaccaa 240  
 ccggacacac tagcgcgaac agacgcgtca ggtcaatcaa cacaatggca catcctacga 300  
 agcatggcaa gggagccaac cgtgcgtccc gtacacattg caccgatagc tcacagtncg 360  
 agcagtagca cagcctcgtg agcacagtcg tacacgaagt ctctaggaac gtgagagggg 420  
 gcctcctaac atccaacaag cccgcggacg cagaanacaa agcacatgag cnggcaccgc 480  
 cgcaccaac acagcggaca ctccacacag aaataccgag gcactcaacc gcacactcac 540  
 aaaccaaccc atacgccgnc atccacaagg atcgacgaac gacaagcaga cggaaccgcc 600  
 cagtcagcga gacaataaca cgagatccta agcgacgcaa accg 644

<210> 12767  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12767

agcttcttat atcagttntg atctattntg tagtttccat ttaatctaata catatatatt 60  
 tgtcaattta tgatttatac acttgagtct tggaatttat ctgctgctgt aacatgtggg 120  
 catTTTTgtt catgtctttt tcagattttt gagaaatatg ttaagaattg ggTTGcaatt 180  
 tgtgcgccat tccagggtaa gtaattcttt tctatatTTa taagaagtat ggaattataa 240  
 ttaagggtat ttgatgaatg attcttttag catttcaatg atgggtctat ntaatttttt 300  
 ttccatgtnt aatatattgg aagaacgcac tgTcatcttt tcttcatagg ctaaagtagt 360  
 tgatggacaa aaaaatgtgc aaaagcatga t 391

<210> 12768  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12768

tcaagttggc aacaacaatc cattaagtca ccanaatata cttattagaa catatttcan 60  
 aataatcaag ttccctattc tttctatgat agtatgtatg atgcaatatg aaactggcctt 120  
 ttattctctt ctagaagggt acattactcc aatcaaatac tcatttgtac agcatcactt 180  
 caatcacatg tctctttatt ctcttggtta gttacagaca gaatggagaa nattaagaga 240  
 ctctttcttt agtcagaaat ggggggttacc aagagaaatt atcttggtta ttgggataaa 300  
 ttntgcaagc ctaaaatggc agggcctaca tcgcctggct ctcttggaan taatttagtt 360  
 ggatcttact agttataagt gaatattgat cacgatcgca tgctnttatt aattttatga 420  
 ttattgcttt aatttatttt ggtacattat caccatttaa tatct 465

<210> 12769  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12769

tagcttgtgt cagataatgc tgggatggat tctcgacatg ttagatggct gctacacgaa 60  
 gaagtctgtt ctgtgtagaa catcgggtgat gtgctgggtga tcatgattag tgaggctcctt 120  
 actgagctgc gtccactgcc tgngtctgag tccaagctgc agctagatga gctcttcatt 180  
 gggtcttagg cctctatccg aagtgtcatc atgcgggatct gtactgaatt cattgtcctg 240  
 acttgcttgg tagacgatca gggcttgtat tggaggcctt tcatccacgc tcatgacttg 300  
 agtgccttca tccacagtgg gatgaggctt ggctggctcc ctgttgggac gacaggggtgc 360  
 tacctctatg ctttctgcat agcgt 385

<210> 12770  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12770

tctaaactnt atacaagaat gaagctctga taccacttgt tatacaagtg gtctcagata 60  
tcttaagaag ggggggttgaa ttaagatatt acaaactatt tccccatta aaattctatt 120  
tcactttcta ttcaagttac aaattccctt acaaatgaac ttcttaaata ttgattcaaa 180  
tagatcaatc tgaatataaa tataaaacaa taataaataa aagagtttaa ggggaagagaa 240  
agtgc aaaact cggatttata ctggttcggc cacacccttg tgcctacgtc cagtcccca 300  
gcaaccgcgt tgagagttcc actatcttgt aaaatccttt tacaagttct gaacacacaa 360  
gaacaatcct tccttttgtg tcagaattct ttacaacaa gagaccctcg gtctcttaat 420  
cccttagag 429

<210> 12771

<211> 414

<212> DNA

<213> Glycine max

<400> 12771

agcttgatta acattctgtt tcaaccatc tgatggatct ccatccctat tcctatctgc 60  
tacaaattta aaaaattagt caaacttggt cacaaattga tgggccaata ttgtgacatt 120  
cgtgtcagat acataactta catgcatttc tctctatctt aatcaattta attgggttact 180  
tcttaattcc tattgttact tccttcggcg gtcgtagatt attgtggtct taattaatct 240  
ttatatgaca tgtaattggt attaactatt ttcaaaattt acaagcttaa atacatcatt 300  
taaaaattgg ccaagaccaa gaatacatgc tatgggatgt ctgcatgtca agaccatgaa 360  
tacaatactg aacttaacca tctctttata ctcttctaag atatttctct atgc 414

<210> 12772

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12772

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cctatcttcg tatagggtgt agatagcttc gatctatact tggaatgaaa atagcaagca 120  
atctgcaggt agtcatatat atcttggtttt aaaataagca tagtcaaaga aaacaaactt 180

gaaggtgtat tcagttgcat tagaagtaga tcataaacca acatgttggt ttaagtggaa 240  
 ctgaacttaa tctcctttaa gtaaggtctc aagttcgagt tttgtaaag aaaaaaacat 300  
 agttaggaag ggagatccca ctanaggtaa caagtcatgt ttctagcaga gattaatcat 360  
 caataaaatt gacggatact ctatactaact gtcatgacga caaacaaaaa taaaataaaa 420  
 cagatcataa actatataac ttac 444

<210> 12773  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12773

agcttagctc aagaccact aaaacctatt ttatgaataa gcctatttta agtttttttt 60  
 caataacact aatccaccaa ggaatatgat ttgtttcagt tttgatatag accatggacc 120  
 caaagcagtt gagtatatcc agatatgctg tattatttcc catcacttgg tttcacaatg 180  
 cctttctgct tgttacacct ccagttntta tgcagccaan attcaacaaa acatcaattc 240  
 tttaatattt aagcgcaaact aactgttaca taattatttt tanagacaat gttgccttat 300  
 tctctattat cagaatacaa ttatttagca gttatcactg 340

<210> 12774  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12774

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 taccaaaagc aaacaaaagt aataatttga tataatgaaa tagtacattg cctaattgat 120  
 tctcgaccat ctgagaggat tgttccacag actgcaagaa cctcaaaact cgcttccaat 180  
 ttctccaca tctatcatat agctccctct gagaattcaa acccatcctt gcaaaggtaa 240  
 catgggaggc acacaattga aatgcagcaa agtcaaccaa ggacttgaac ttgaaagggg 300  
 gcaaaccatg actaccacca aaagtttttg aagtcaattc taaacanaca aggtccattg 360  
 cactgagcct gcccgagcac agaatttcta ataccaaagtg tgatggcaat tcctcaatgg 420

aaaaatggtc tgcaacggtc tccatcctc

449

<210> 12775

<211> 586

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12775

cccacagcca aggcgatcgg tgaaccggac ggcaaagcga atgcaaacac acacccaaac 60

caaaccacga cccgttgatc cantgtagaa ccntnntgaa nacntcggc acacncaagg 120

gacgaancag acgcggaacc gcgagagcca cgagagacgt tcagcaggca tgtaagccca 180

gcaatagacc agagcagcaa ggaggcatag gaaggcaaca acagcaccgc cagtgcacac 240

acgcgataac agcacgacat gcgagcattg aacatagcga caccgcacag acaggaaagc 300

cagactatac accgcaagaa caatccccgc aaagacacaa ccaagacgag ccacatacag 360

gagaaaaccc acgcaaggca cgaagatcaa ccgcgcgaga gacaacagac gacaggggtga 420

caaacgaacc aagctaccac accaagcgca aaaagaaagg cgattacgcc cagggagcca 480

accaccgaaa gcaacaaagc atacacgtga tacagctggg acgaggcgca aaaaaaggag 540

agtcatagcc tgaaaaccaa accaccacc atgaacgaag caaccg 586

<210> 12776

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12776

tggtacaata atgattgata cgaaaccgac attgttcgaa attatgatga aagccacaaa 60

aacacgaatt gaatcaatag tctcgatct ggaaacttac ctgctgagga acgaagaacg 120

gatgaagaac agtcattaac ggaagacaac cttcacggat tcgcttacga taacatctca 180

gaagcgttac tgaagctcct cagcttggat tttcttcacg gaaactatct ttttcacctc 240

caacagttga aatgcatagc cacggggatc atggaccctt agaacaggcc ccttttttgc 300

ttcttatana gaaaaagtgt gaggaggtt 329

<210> 12777  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 12777

cgcggttctag cttgttttaa gtataacaat ataggagatt gttcttggtt gattgataaa 60  
 gacttacatt ttaatcatgg gttaacgagt tatacaactg atggagatat attacactta 120  
 gttagggatg cttttgaaaa tgagaacgag ataaatgttt attctcatca tgaagtcaat 180  
 atccaatttt aaaagaagtc ccacagatgt tgtacttgga atgtgattca attccagata 240  
 ctgttgagaa tgaggataac ttatatgatg tacct 275

<210> 12778  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 12778

gtacatatat taaaggcatt cgctgggttaa tcttgctata gtactctcgc aatgcgattc 60  
 acagtttcag gaacatatcc aagtacaaga ttcaagtaaa cttcttcttt gtcagtcggt 120  
 gaaaagaaac aatgccttag ggcaacaata tttggatgat ccagcatttg cataatttgt 180  
 aactctctat tcttgatcgc cttgtcctgg agaactttct tgatggccac aatttctcct 240  
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 tcatacatca acagcatggt gtttagaaga gatatgaaaa gcaaactcac ctgaaaaaca 360  
 acacccaaaag agcctgtccc cactacatgc tctgcaatat aactaacatt ctgtcaactc 420  
 acaaataaaa attatgtcag aggaagtatt ag 452

<210> 12779  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12779

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tgtatgatgg cctttgacac tataaccact taaatttcca tatgttggat agtcattaag 180  
 ggtgcaaaaa accattgcac gcaacctaaa ggtctgctgc agattcccat gccacacatc 240  
 taccocatct tcccacaatt ntgtcaagtc ttcgatcaac gaaatcaa at agacctcaat 300  
 atcattccct ggctgtcttg gagccactat catcatgcan agcattatgt acttttgctt 360  
 catgcacaat caaggaggga agttgtaaat cattagcana acagactatg aactgtgat 419

<210> 12780  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 12780  
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 cattgccttg gagattgttt caaaccatac aaggaccttt gcagctgaca aacatacctt 180  
 tcttttactt gaacttcaaa ccttccaggc tgtttcatta gaatattttc ttccaatctt 240  
 ccatggagaa aagcagtctt gacatcaagt tgttcaagtt ccagatcttg gtttgccact 300  
 atagcaagca gaaccctgat ggatgtatgc ctaaccataa gagataaaaat ttcgttgaaa 360  
 tctattcctt ctttctagct gaatcccttg gcaactaacc tagccttgta tcttatccct 420  
 tccttttcta aaagaccacg tttcctcttg aatatccact tgcaacctac caca 474

<210> 12781  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12781

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 cagacagata aaatgtgggc atgagttgag taggactaac accatttaaa acacaagaag 180  
 ttaacctatt tatcaagtaa gtagcgggta gaacaacttt cccagtaag atttaggaat 240  
 agacatttg aagagtaaaa ctctagcaac ctcaaagaga tgtcgatntt tcctttctgt 300  
 aaccaattt tgttgagggg tgtccacaca agttaactca tgaacaatac cattatcttt 360

gaggaaattg gaaaggggtt tattcacata ctctctccca ttattagn

408

<210> 12782

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12782

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catggagatg cagcagaaga taaaggaaaa gagatgagag gaggcgatat ccattaagaa 120

ataagccatg gaagaaggag tttcgtcacc aagaatgtgc cttggataaa aagcttggag 180

agaatgtttc aatggaggaa aataaagaga gagagagaga gagaaaaaga gagaagggga 240

gcacgaaatt gaaggaggaa aagggggaaa gaagttgaac tttgagttgt gtctcacatg 300

actctcattc atcanagtta caacaagtgt tacacatgtt tttatttata agcctatgta 360

gtttcttgaa aaacttcctt gagtaagttc tttgancagc tagagtntag ttataaacac 420

ccttctaatt 429

<210> 12783

<211> 464

<212> DNA

<213> Glycine max

<400> 12783

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ttcttttgca tctccatggt ggaaaatcac cattaaagga cccatttgaa gctcaaagat 120

ccagcctcca tagaatccct ctttgtaaac aaccaaatt tctcaattga ttatttttcc 180

ttgtttgttg attgttgcaa ttctcttagt gtagtactag ttgaatgaaa tagtgtgtta 240

atctctcttc tccatttctc tagtttttat tttcgacttg aatcctttac gaaccctatt 300

ctacaagttg ttgaactata ttccaaattt ctaccttggt caactatgga acataaaatt 360

attaaaggga ttttagaatt gttaatgcat tctgtgtcaa tttatgattg caatttgagt 420

gtttaaccat atagcctgct accgacgcaa gatagacgga caca 464

<210> 12784



<211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12784

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 agcagtgcTT ttCctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180  
 ttctcctttt atattcttct gactgtaagg atataaaatg ccaagatcca atgttccttt 240  
 cacatacctc agaatcctct ntgctgccaa gaagtGaggt gcctttgggt tctccataaa 300  
 cctacttattc aaccaaacac aatatgcaat atcaggtcta gtgttacata cgtatctcaa 360  
 tgagcctaca atttgcttgt acaaggtagg atcaacttct ttctcatccc catctat 417

<210> 12785  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12785

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 aggtttgtaa gttgtaaaag ttcatTcaaa catttattgg atctgagaac acaaggTggg 180  
 tatatataga gaaaatagtt ataaccatct gtaattgatt aaattggcaa tgtaattgat 240  
 tattacgtga aagtaatcaa ttatatTTtc caattaatcg attaaagtgt tcttccccaa 300  
 ttctagaaaa tataattgat tattttcaca taataattga ttacattgcc aatttaattg 360  
 attaaagtgt tcttccccaa ttntggaaaa cattcaagaa caatgtaatt ggTtaaagtt 420  
 ttcttaataca cttctaggaa cactttcaag aatgatgtaa tcaattacta ta 472

<210> 12786  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12786

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cggattgaat tgaaaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
aaccgacatt gcacaattct tttgataaaa actagctggg cgataatggg ctttttacgg 180  
cagagtaagt tttcttgttt tgggtgttgca taaaaaagct acaatgtact tcggctaggt 240  
ttttcgtgcg agttcaaccg acattttgtt tcggccagga taacattatc ccacctctgc 300  
aaaaaaatat ttgctaaccg tgtgcatgca tatgtcattc aacgattgaa tagaatactc 360  
aatagccgac aacggtcgtg aaatagtcct gactgatatt ttt 403

<210> 12787  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12787

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gatcttatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggg 120  
gttcctagac aaaaccgaat tgatgggtatt aaactcaaca ttctctcatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggacccaaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360  
tggacggaga tganaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggac 420  
ttganattca agcttcanaa actaac 446

<210> 12788  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12788

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gtcaagggat gcctgagttg taaatccctt cacccttga ttctcacgga taaaaaaaaa 180

atccttttggc aactntgggc gatttggttt atctaattat ctctctttgt tagtagtggt 240  
gcttggttcag agttacactt gaagctaaag tcatgcttaa caagacgtgc gaccaacaaa 300  
aaagatactg ctatatctga taagtttata ttntgtatta attnggtaat ggttaccgtc 360  
caatggaagt tatttcgtgc gaaaaataat ccagaaaggg acaagagcat cgctacg 417

<210> 12789  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12789

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tctctggctt gaactaagca aaattcatta aaattccaga aaggagtaag cacataaata 180  
atTTTTtagaa aggaacctac aaactcaact agctctaatac aaggaaacat gaaaccgcac 240  
tatggggata ttttaagaaa gaatttcctg ttaagaaatt tgcacactca agtcaaagca 300  
atgtcaaact tgtaaaaggg tagtggagct gatacctgga agaagtttan aaaacctcat 360  
ccttaaacca attcctatat ggnagtccac aaagccttac agacatgggtg attaanaaaa 420  
ctgcctttcc actttatata gtagtttctc atcanacatt tacaat 466

<210> 12790  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12790

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cctttaacat catctatact tgtttcattt ttattttctt tcattatgaa taaatataca 120  
caagattaaa taatttcttc ttggtataag gttagacata ttgagtgaac acaggatttt 180  
ggaatataac actcaattag agtcatagac cttaaagatgt ccttggctgt tttagttttg 240  
taattgacca gctctagaca ttctagtact ggcagcacca gatcagaatt taaaatctga 300  
gtgctattgg ggctatatct gatcgggctt gaatgttgac ttcactgagt tggatttgta 360

ttcacttttaa ctagcttaca actaacattc tttcctttgt tgcataatag a 411

<210> 12791  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12791

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 gaactgatac aaatgtaaca tattgtgaaa taatatcaaa gtagtttacg ttgcatcagg 180  
 ctaaaaaat atataaccaa tttctttaaa ttatattaaa tgaaagctga aatataataa 240  
 aaatatagaa ttcttattaa aattctatta ttatgaattt ttcgcttgag aaattactga 300  
 tacaattcaa aagttatagc acanatagct aagaaagata cttgactaca atctccaatg 360  
 aaaagctaca cgtacacacc atgaaattga catttatata tacttataaa tttccacgaa 420  
 ctacttatac cnggctaaaa ttacacagac taattaatta acct 464

<210> 12792  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12792

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 ggccgtaact tttcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agacattcaa atggtcataa ctcttcacac ggatgtccga 180  
 ttcaggcaaa tcacaaatcg agacgtcaa aattgaacaa cggaagctct tgagaaattc 240  
 aaatggatcat aacatttaac tcggatgtcc aattcaggcg catcacatat agtgacactc 300  
 gaaattgaac aacggaagct ctcgagacat taaaatggtc ataacttttc acactgatgt 360  
 ccgattaagg cttataatat atcgattcgc tcgaaaataa acatcggaag ctct 414

<210> 12793  
 <211> 437  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12793

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gaccatttga atttctcaag agcttccgtt gcacaattct gagcgtctcg ttatgtgatt 180  
cgtctgaatc ggacatccgt gtganaagtt atgacatat agatttctca agagcttccg 240  
atgttcaatt tcgagcctct cgacatatta tgcgcctgaa tcggacatcc gtgtgaagag 300  
ctatgaccat cttgatttct ccagagcttc cgatgctcaa tttcaagcct atagacatat 360  
tatgcgcctg aatcggacat ccgtgtgaaa agtatgacct ttgaatatct ccacaacttc 420  
catagtaatt tcaacgt 437

<210> 12794

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12794

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caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ntgcaaagt tctgtagttg 180  
catcctatcc agaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattan 240  
gtccttccaa gaatggactc gggaagattc caagttagtg taccatgtaa cagctacccc 300  
agtaagactn tcttggaagg aatgtattag caattcctca tcttttgctt attcccccat 360  
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<210> 12795

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12795

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tgtaactgct actaagcttg caatggaaga tattgtatat atagtaatga actttccatt 180  
cagtaacaca aatttgttta atttgtagcg tcaaacttat tagcttgtgt gttcaacttg 240  
aaatcttaaa tttctatfff acatctffta tttggcatta tgtaacaaaa gatgcaaaaa 300  
aaagtttact aaacgtttat atcagagatg ggcattgggtt gtttatatat tgcttgtctg 360  
gcacacccca nattctffff tgatntcctt tgtccgtaga ttagagttgt tntatatagt 420  
tctagtttgt tgaggtaaaa tcaatattat acttg 455

<210> 12796  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12796

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cttaaaagta gtgaggataa gaagaaagaa ggagaaaatc aaggccgagg cgcttccgta 180  
atgcttccat gacattntcg taatcaatta cgtgaacggt cttcgtcatt cttcattcgt 240  
tcttcgtcgt tcgtcaatct tcaaccggtt agttntttat ttogaagcct tgaattcatt 300  
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tcagtattct ttttcttt 378

<210> 12797  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12797

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tgagaggcta aacccatttg tttgaagcct agtggccaaa ctcttctaata gtaatacttt 180  
cctattatct atttaatgca attatggntt ttattggtct tttttgtgct ttattgttgc 240

tgattgtggt ttgatcacc atactcatgc attgtttaag aagtaatgca ttggaaaatg 300  
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 atgctttgtt agcctatttc ttgcatcttt aatcttaat 399

<210> 12798  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 12798  
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 actgttcacg tagcaataaa aatttgtttt ctgcttcaaa ttgcaatttc attttctact 180  
 tctgcccttg aattcgttat cttttctgct gattaatgga aggctgagtc tccagtgttg 240  
 ctttctcttg gtatacgact aacttttgat agaaatcctt ttccaagctt gtatagttcc 300  
 caatttatgg tcattgtgaa gtaaatttgg taaataaatc ttggtttatg gttaatgttg 360  
 tctctagaac atttcca 377

<210> 12799  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12799

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 aaacaagggt actcaagcat gttaatatct gcaatgtcca tcacattnta aacagatcaa 180  
 ggaataaagt caagaggggt acagcatcca cagaggcttc agctgcgcct ttgaaatagc 240  
 caatagatcc ctcaataagt cttctatatc cttgctctgg agcaattaga tgtggctgat 300  
 aaccatccgc ttccataaca actttttcga cattctttaa cgaaagatgg cgattaaatg 360  
 ggagctctct taatgcagct ggtaattggg ggtcaaaaac accatatatt ctatccccgc 420  
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<210> 12800  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12800

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agatccagcc tccatagaag cttctcaagg aagcttccat aattntatatt cttacataaa 180
attacctttn tgtccatgag aatcatntgt aattgggtgac catgaagatc tttgtatgct 240
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aatggaaatt agtttaaaaa ccatccttag ttgttccaaa actggtaaaa aaagacaaaa 360
ttcaccatgt gagacta 377
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<210> 12801  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12801

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gagtcacatc ttttggtttc aagtattttg ttacctttat tgatgaatac tctagatgta 180
cctgngttta tttaatgaaa gatcaatatg aacatttacc tatattcatg tctttcttta 240
atgaaatcaa gaccagttt ggaaaagtaa ttaagattct tgcgagtgat aatgccaaag 300
aatatttctc ctctaattctc tctttggttt aaccacacaa ggcattttac atcaggccac 360
atgtctcat acaccacaac aaanatagta t 391
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<210> 12802  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12802



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gaagaacttt aagtgagact aaactcatag tcgacctaaa aaaaatcaaa gatcaaggga 180  
tcttaatgga aagccaaaag atagttacag aaacctacac acaacacatt tttagaaagg 240  
gataaagaac ttgtgagact aaactcatat ganagattag cctcataagt gacctanaat 300  
accanagctc ttngnatctc acccgagagc caaaagatag ttaccaaacc cttcgcgcta 360  
caagcttagc acgtaacagt gagatcctaa nactataatc ccaaagaaaa tcaagcagac 420  
gtgactc 427

<210> 12803  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12803

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aaatataaac ataaaaaaaa aatccagggt ttcatgtcta ctctagtcac gatgatcagg 180  
ttttgggtta tgaaacacaa ataactctga aattttttga gagaactaaa taagaaaaat 240  
cctaacaata aggggaaaaa aataattaag aaaatcaaga gatgtacaca ttacagatgt 300  
acaagaaagc aggatagtga gaccctaga tcaacaaaaa aaaggatatt tagatttcca 360  
aatgttttta ttatagggtt taggagactc agatttccaa atggttgtgc cctgatgtt 420  
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<210> 12804  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12804

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taacacagat agtatgaatc atacaaagat aaacattggt cgtccactga aaataaaaaa 180  
 ttatgtagtg aagaacacag taattgtcta gtgacaagta aaaagatctt taaagagttt 240  
 caaaataagc acttggtgta aagtgatggt agaaaatata ataagaatac tcgataaaac 300  
 aatatggaga gaagtaaaaa cacttggctt atactgattt gctcaacctg agctacatcc 360  
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<210> 12805  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12805

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 cccttcgacg agagggcgaa ggcaaaatag ataagccaaa tagttcgtct cccagggaga 180  
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 gtccgcaa at tttgaaaaga aggggttcaga agttgtttac gcatagggaa ggtattagca 300  
 cccacacac ccatcacaag ggacgacaac cttttaattg agtgtgcaaa aacgtgactt 360  
 caatattatt tagtttccct tntatanttt tatntttta gggttgacaa ggggtgtttcc 420  
 cttgtccta cgtatcttca ggtgcgatga gaaattcana cctatgtagc tcttta 476

<210> 12806  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12806

agcttgattt gtgagttgat tctagcctta gtttcacttg gttatttctc aactcattta 60  
 aagggaattt tcaatgtaag tgtccggttg aaacttgcct ttntttatga ttaaccgagg 120  
 tcacggcatg aacaatcggt tgaattttac tttaaaggag attatacaag attacaacac 180  
 aaatgatcga ttgaaattca tttaaacatt gattaagtga gccttaaagg atgtcccctc 240  
 cattatgctc agtgaacac caagtggatg tacgctccac ttgaactaat ccacaagaga 300

tgtactctct cttgttctca gtattacaac ccaagtagat gtacgctcta cttgtaccac 360  
aaaggatgta cgctccaatg tgттаagaca aagatatctc anngcggtag tcctttgaaa 420  
tc 422

<210> 12807  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12807

tgacttccat ctacaggtaa cagggatcat gaatacttgt gtatttcctc acgaaacacc 60  
ttaacatgac tggaaaaggt aaaagtctct ctattagtga caaaacaatg acatgatgca 120  
tttacggagc agtttaacga ggcgtgagtg gaagataacc agcccacaat aagactaaca 180  
cttgattaac taggaggcaa taattttgaa tcaagaagga tcactaattc agaatcaaca 240  
acaaatattc caaatgaatt ctagaaaaaa aaacatgacc acaatgtaca cacatatgga 300  
gacgtcaaan atcgcttgat tgggatagaa acatcagtaa tcaaactgtt tgacgtaggc 360  
tctcaacaca gagaatgaat tatactcggg cttgcaagta taattgagtt acttgacttt 420  
agaacgcaac acaaagaaat gggttgacca gaactggaag gttagtcaaa a 471

<210> 12808  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12808

agcttgcaact tcaggatgtg taatgctggt aaaaaattat gatactgaac tacttgaata 60  
atcctcaagg gtaatcctct ggtcattctc ttctgccatg gtaatggctt taggtaattg 120  
agtggcagat tcccttgatg atgggtgaatc angtgataat aagtcggagg aatgagtctc 180  
ctcaagaatg gatgcaactg ttctatcttg cagaagtttc cttctcctct cggtcctggt 240  
ccttcgcaat gtagcttcaa tttctaagtc caaaggaact aaattgtgtg tgggagatct 300  
atgcatatac aatactaaca gaactgtgga acagacaaat agaaattatg agcgaatatt 360  
cacaaaaaca atcaaagaat aacaaataaa gaatagacac ctataaacga gctaacttcc 420

caaataa

427

<210> 12809  
<211> 473  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12809

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gtggaggagg agaaacatat atacatatcc tttaaaaatg gttaccatgc ttgtcaaaaa 120  
tacatatcct tcatacacac tacattttgt caaattataa cctgaccata caccattttt 180  
tgagaaagca acttgaggct attgtggttc aagtgcccta gtattttgca tgtgccacat 240  
tcaaacagtc gttaaattcc tttttttgtc atcaacatga attttttctc ataattaaag 300  
gatagaggaa atctcatggt ctttgatatt gttgccatag taattcattt caacaaggat 360  
tgctgttagg gatagtttgg tgcttgaaga actgngtatt gttgaatttg atttatttcc 420  
ttttccctc attgccacac tatcatnntt tgttatgtac tgtcttgtaa cct 473

<210> 12810  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12810

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gattcaatgt gagttgtcgg gaccaagaag cttaacatga ataaagacat aaaaaccaca 120  
tattgtagag taaaaaaata tttttaagct gggtaccttt gaccatattt ataggcaaaa 180  
ggatgagggg ttatgtacgt tataaatcaa acaattacac cgttagagat ggggcatatg 240  
atgaaatctc caatgattag tttcactaga gtaacaaaag catacatttg aagcatataa 300  
tattcctaatt cctaccacaa tatttttagct tcttcaatat cagctgctaa gacaaaatag 360  
atattctcgg gtaagaatta agaattctta ccaagaagat agaaatatat aat 413

<210> 12811  
<211> 425

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12811

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nggattgatt cagtctaact agggatcaag gtttagtaat ttatgctaca acatacaaca   60
catatgcatg attgagtaga gaaacatctt tatatgcac agttggtttg ttagaaagac   120
ccaacacctt tacctactgc tgtcaatcct acttacttgc atttttactg tttttagcct   180
agacttagtt taattttatt ttaaaccatc aattatcaat gtttctttca acaatgcctt   240
atttttgaat ttaacctgt ctaatactag ttccctgagt tcgatactca gattcatctg   300
tcttaatttt aaatacttga cgatccagtg tgctttccag caaacccaat tttccttana   360
catatttgta taaagaaaaa ttggaccata aagtaactgt aggggacatc caacacagta   420
cttat                                             425
  
```

<210> 12812  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12812

```

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aatatatcga gacgatcgaa attgaattct gaagctctga gctaattcaa acgacaataa   120
tgatttgctc ggatgtctga ttgagtcccg taatacatcg agacgctcga aattgaatgt   180
tgaagctctc agcaaattca aacgacaata actntttact cggatgtctg attgagtccc   240
gtaaaatata gagacgctca gaattgaatg ttgaagctct cagcaaattc aaacgacaat   300
aacttttttc ctcatatgac tgattgagac tcgtaataata tcgagacgat cgaaattgaa   360
ttctgaagct ctgagctaata tcaaacgaca ataatgattt gctcggat               408
  
```

<210> 12813  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 12813

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tcagaattca atttcgagcg tctcaataga ttacgggact ctatcagaca tccgagcaaa   60
  
```

acgttattgt cgtttggatt agttcacagc ttcagaattc aatttcgatc gtctcgatat 120  
 attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgttggaa tttgctgaga 180  
 gctcaacatt caattttgag cgtctcgatg tattaccgga cttaatccga cattcgagtt 240  
 aaaaggtatt ggtggttgaa tttgctgaga gcttcaacat tcaatttcga gccgctcgat 300  
 attttaccgg actcaatcag acctccgagt aaaaagttat 340

<210> 12814  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12814

agcttcatgt tgctcattga ctccaaattg ctgcanagaa ggacaaagat ttgtatggcg 60  
 atttacagaa gaacatagac cacagactct tgcaacaagt gcagatttct aattcatgga 120  
 aaactgagtg actaggttga ccgaggcatc aattnttccc ttaagccttt tattttcagt 180  
 agatgaagat gaatctgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240  
 tgcactgaat tgtaggagt tggaagctat cttctcaatc aaattcctgg cctcagcagg 300  
 ggtcatatca ccaagagctc caccactggc agcatcaatc atactcttat ccatgttgct 360  
 aagtcctca tagaaatatt g 381

<210> 12815  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12815

tgaagtgaga cagtgtggaa gagtctgtct tctactttt attcgttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg nggtcaagag accttgagga cgtcaggtgg ggtgctattt 120  
 cccaaaacga agcttgacca atccccggcc aaccgggca tagtcagtca gtgagaacct 180  
 gtgacgtacc taaacaggcg agtctctggc agtcaaccga taaaagaaca aagaccacaa 240  
 agcaaggagg cttgtgtggt ggctggccag ctatggattt tgagtgatat atggaatatg 300  
 gcctctggta atcgattacc aagggtgtgt aatcgattac aaggcttata aatgaagaca 360

ggaagttaat atggtctctg gtaatcgatt accaatggtg tgtaatcgat taccaggcct 420

<210> 12816  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12816

agctntataa ggcggggtct gggagacaaa ggtcaagtgg tcgcatatg cgaagatgat 60  
gttccgagta cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120  
cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggttttt 180  
aaaagctcta tagttgggcc taggctntag agtttttctt tttgttaagg ctctgtgtct 240  
tttgtttttg aatttcta atcgaggacct ttcttcatct gttcctgcgt ctctacccat 300  
tctcattcat ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcacc 360  
cgaagggtact antacctggg acccgcttat cgacttcgag caa 403

<210> 12817  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12817

tgagatgagg aagtgtcgaa aggtgtaact tcctgctctt attgttgacc acagagtggg 60  
acctggagat atgtcgtggg ggtcatgaga ctttgtggac gtcaggtggn gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag agagaacctg 180  
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
agcaaggagg cttgtggagg ctggccagct gtgaactttg tgtaatatgt ggattatggc 300  
ctctggtaat cgattaccaa gggcgcgtaa tcgattacaa ggcttaaaat tgaagacagg 360  
aggctaagat ggtctctggg aatc 384

<210> 12818  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12818

agcttgcttc tacactcagg aagcattatt tgccatcaac atgttggtgg aggttttcaa 60  
ttccttgcggt cttctcctct ttttcgatgc ctctatcctt cttcgtttgc ctcgttttca 120  
ttgcaggaga aattccttga gcaattcatg caggaagctt atgctttttg tgttcgggac 180  
cgcaagaaat gcttcangta tgatcaccta ggtaatgtn tatccataag tgagttcaat 240  
gatatttaaa attgggtcga tactgtagtc tagtagtggt tgttgtaatg tagtgataa 300  
ttgtgaaccc tagaaagaac ataattgttg cctgggggtg attttgtana ttagtggtga 360  
tatatatnt gctgcaatca anttaatgct ntataatgta tcattctttt tacatctgat 420

<210> 12819  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12819

ntgatgcaac atttgagag gttaatgaaa caacgagatg atgcgctcca tgagagggtg 60  
gatcaaattgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcctagac aaaaccaaatt tgatgggtatt aaactcaaca ttcctccctt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggacaaaaa ggtgaagctt gtcgccatgg agttttccga cgatgctctt 300  
gtgtggtgga acaaactaca aaaggagaga gcaaganata aagagccaat ggttgatata 360  
tgggtagata tganaaggat catgaggaag cggtatgtgc cggctagtta ctcaagggat 420  
ttgaaattca agctccaaaa actaacc 447

<210> 12820  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 12820

acgcagttag ctttggttatt gaagttggtt tctgagtcac caactaatat tttaatgaca 60  
accacagaat ataacttoga tctgatccaa ttaagtcaat tattagtaac aaatttgctt 120



tcaactccag ataaatacgt attatatatc atacggtgaa atgtgtagtc tctgctgcta 180  
aatcaactaa ttaataccac ttacgtgtat ggacgtaaag aataattata taataatcta 240  
tatggaaact atg 253

<210> 12821  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12821

tgttgacacc ttcncggcc aatctatagg tatgtttcct attgggaact caagaatcct 60  
ttgctttgca aatgatctat atgtttcaca ccccaaacat ttgggtaact cattgatatt 120  
taatacaaac ttttattatg cagattagca ggggtgaagct ccaattatga ttaaaaaaca 180  
gcatgaaaaa acatttaaga cactacattt aagttttgtc catgtaatta aactttcata 240  
tttgtccctt acattataag caacaatcac tttaatcctg attcttttta agggtaataa 300  
tatgtggaca cctttacaga ctatttctct ttatatctct tatectatca catcatatat 360  
ctcagctatc atgcctacac ttttctctag gtgtcattta gctcttagat gtccttacat 420  
tacaataaga ctaat 435

<210> 12822  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12822

acttgtttta agatgaatat ataaatctta cttatcaacc ttaaaatttg tcatgttgat 60  
tntatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120  
tatatatata tatatgtcgt gtctttgtgt cctttgtttt gaaattttgt tgcgctctgg 180  
tttatccgcg ctcgtttcgt gttgtgtctg agacaatgca ttttgttaca aaatcatcca 240  
catacaaaat acaggaaacc atctgtccac tctcccatc acacacacac acacacacac 300  
ttactntata gccatganat tcggaagaga gtgagaattg acgctcgctt cacagctccc 360  
tgtgatggcg cttgagtgat gacactcata gaggtgacta gg 402

<210> 12823  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 12823

tatagaatat ataatattaa taacaatgac aattgaagaa tctatacatg tttcctttgg 60  
 tgagtctaata tccattcttc caaggaagga ttttttagat gatatttcag attccttaga 120  
 agatacacat attcatggaa atgactctaa agaaaaagat gaaggaagca ctgaagattc 180  
 tcaagataat gaagttagag cacataatga acttccaaga gaatggaaag cctcaagaga 240  
 tcatcccctc gacaacatta ttggtgatat atcaaaaggt gtaacaacta gacattctct 300  
 taaagattat gccatgatat ggcttttgta tctatgattg aacctaaaaa tatacagcac 360  
 ttggttcgtc agcaagcggc caaccaccgg gggcaggtgc agatacatga ctgtctctac 420  
 cagc 424

<210> 12824  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12824

agcttgaggt ttcaattgct ggaacacaaa gctaccactc tcctcaagaa aaagatgtag 60  
 aatctataac caaagactca gaaaaagggg gtcattccga aacatctcct gtgggttcttc 120  
 aaaaagggtga gaaattagaa gattccaatg caaatgtgtc tcatttagct actgaacctg 180  
 atcctccaca gctcaattct agaatcaatc agagaccaaa aagggtcact aaacctcctg 240  
 aaaaatatgg ttttgaagac atggctgcct atgcattaca tgcagctgaa gaaatagatt 300  
 caaatgaacc tgccacctac aaagaagcta tcaatcatcc tgaagctgan aattgggtgt 360  
 tagctatgan agagganatg gaatctttat ataagaatca tacttggaac cttgttgaac 420  
 tacctaaa 428

<210> 12825  
 <211> 478  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12825

tgtaggatta tggagtgcc gtcacatgtg gtactaggtg gcgatcgggc gatggtgcaa 60  
gttgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120  
actgagctca cgtactccca cgtagccctt atcctcattc ctctcagcac cgggtcccca 180  
tcaaccctc caagcttcct caatatccaa gcaattcaat atccaaacat catgaactac 240  
cctaaaccaa gaaaacaggg tagaggcaga naactctgcc caaaaacaca ttccaatacc 300  
acagctntcc ttactcaaat accccagtaa cattctcttt gttccgattc gttaaccgtt 360  
ggatcgactt gaaaatntta ctggagggtc ctagtatata agtctacatt ntgaccgttt 420  
gatctgctag aaaatgtcca gaaccaata tgtactaccc ttttcacaac cagcaata 478

<210> 12826

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12826

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attgattaca gtcactggta attgattacc agagagtaaa tatctctttt aaaagctttt 120  
gagaaaaacc tttggccata acttatgcat catcaatttg gaaacttctt tcaaagactc 180  
tagagactaa cttcatcatt tatcttggat ttcttggagt cttgttttgg atcaaacttg 240  
agaagtccgt ttctttggca tcatcaaaac atcaagatat ctttgcttct acaccttgct 300  
ttgatttata agtggatgga agttggaacc taattggatt gtgtctctga gtcgaccttg 360  
gttattccta tactacaaaa ttgttgaaat tcacgtttgt tntgagacga ttcagcattg 420  
tcatcac 427

<210> 12827

<211> 447

<212> DNA

<213> Glycine max

<400> 12827

tgccgcccag ctcaccaag cgagcaaggt tgcttctcc ataagcaaca gccttctgga 60  
 ggaatcttct ggagggccca agttggcctg gttgctatct gcacccccct ttttactaaa 120  
 tgcacctcct tctatctctt ttggttaattc tttttccgta acgttacgaa actttacgaa 180  
 tttcgtaacg atacttattt tccttccgca aggttacgaa tccttacgga ttatgtatct 240  
 actctttttt agctttcgaa gaagttacga aaacttacgg attgcgcaaa acacctcttt 300  
 tcgatttccg tcacattacg gaatttcacg gattgcgcaa gcctgcttcc ttttgatttc 360  
 tgacacgtct cgggacttca ttcatgtgac aaccaaggat gccaaagtgc ccgaagcgac 420  
 caatcaaagg ttgtatatca tcaaata 447

<210> 12828  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 12828  
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 gaattgaacc actgaagctc tcaagtaatt caaatggta taaactttaca cacagatgtc 120  
 cgatcttggc gcatactatg tcgagtagct cgaaattgaa catcagaagc tgctgagaaa 180  
 ttcaaatgga catagtattt cacacggatg tcatattcgg gcacataaca tgctgagatg 240  
 ctcgtaattg taccacgaaa gctctccagt aacttcaaat ggtcataact tttt 294

<210> 12829  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 12829  
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 tcattttcga acgtctctat atgtgatgac ccttaattcta acatccgtgt gaaaagttat 120  
 gaccatttga atttctcaag agcttacggt gttcaattat gagcctctcg acatattatg 180  
 cgcccgaatc ggacatccgt ttaaaaagtt aagaccattt gtatttctcg aaagctatct 240  
 tggttcaatt ccgagcatct cgacatatta tttgccgat tctgaccttc gtgtgaaaag 300  
 ttatgaccat ttgaatttct cgagagcttc caatgtttta tttcgagcga ctcgatatat 360

tataagcatg aatcggacct tagtgtgaaa agttatgacc atttgaattt gtcaagagc 419

<210> 12830  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12830

agcttaggct aaattaggct aaacttttgt aagctacttg agctgagttt agtcttacat 60  
gagggatctg cggaagaaac tcagtttaag ttagtctaaa cctaagaggg ctatctaaat 120  
caggtcgagt cttacatgag ggatctgcgg atgaagcttt gatattcagc ctgacgaggg 180  
atcgaagggt tagtaattta tgctatagca tagaacacaa gagcacgatt gattagagaa 240  
atatatttcc atgcatcagc ttgtttgtta taaagaccca acatttctac ctattgttgt 300  
cattntattt accttgcatt ntatagtttt tagcataata gtttatttta aattntgttt 360  
gaaattatca ttatacatg ttctctcaac aatgctttga ttctgaactt aattcaggct 420  
aacatta 427

<210> 12831  
<211> 471  
<212> DNA  
<213> Glycine max  
<400> 12831

tagggatgga acacttactt gttggtgatg aacaaaagcg cataacggaa tcaaaaaatg 60  
cgaaaaatga tgaccctagg gctgcaaact cgtcaatccc gtgggtatgg cttttgaaag 120  
gggggaaaag aagtttttga atgcaaaaac gtccccctt tcatcattct tataatttgg 180  
tgtaggggtg gctcgcccag gcaagctcag ctcgcccagg cgagctaacc tgcatttttt 240  
ttttttttga gaggaacatt aaccatgtcc cctccttcct tatggtttag cgtcttgctt 300  
aacttgaact tacttaagtt agagttaggc gttgattact tattttttaa aaaaacaaat 360  
agtaagacaa ctgcgaatac aaaggatacg gggctgcctt gcagcgacgt tctctgcttg 420  
tctagcgcag agaatagggc aacgatcagt cggctcgtgac ctcatcccca c 471

<210> 12832  
<211> 426

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12832

agcttctgtc cctgagaatc tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60  
ccctagcctt gcaacaagtt ctagggaagt agacacggag atggacaaga aaatccgcgg 120  
tattgtgagt agcattttga aagaagcttc tgtgcctgat gctgagaaag atgttccaac 180  
atcttccacc ccgaatgttt ctgtgcctga tgttgagaaa gatgttccaa catcttccgg 240  
cccaaagtct gaagccctcc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300  
agcctcanag gagactcctg caccacgggc accagaacct gctccaggtg acctcattga 360  
cctggaagaa gtagaatctg atgaagaacc cattgccaac aggttggcac ctggcattgc 420  
ggaaag 426

<210> 12833  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12833

gcgagcttgt agagaggcta ggctacaaca atttattggg tattctagga ttcaaagtgt 60  
tatattntaa gagagcacia atcatagact tatcccaatg atcttgtatc atacaagtag 120  
ctttctcact atcttttcct cttaagttgc ttttgacctt attgtaacaa cacaatttat 180  
tctttttttt taacatacaa cttatttggt gtgtgtgctg atgcttaacc tttatctttt 240  
cattctaatt gacttccctc ccccaaattt agagtaactt tgccttgaac catatgctct 300  
cctaaaatct aaacaaggta ttaggagata attatttaag tttagggttc aattcatgac 360  
aaaatcattt agcttatata gggagcaaag gatgcaatta tcattcaagg taagctcttt 420  
gggtcaaaagg cttgtgtatg tacaatcatg gccttcatca tgtcctcatt tataca 476

<210> 12834  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12834

agcttagata agtgttgatt ttcaccttct cgctaagcca atctgctggc ttagcgagcg 60

tccgctaagc acaacactca tgggctaagc gcgaggaaga ctctggaaga agatgagttg 120

tacaggtttg ctaagcgcac cgcttcatct cactaagtgc accgcttcag tccatccgct 180

aagcgagaaa ggcacacgct aagccaaaat tcactaatat gcgctaagcg gtccataatt 240

gcgctaagcg cacgagcacg aacaaggcca cctatttaag ctagaaatca gattttgtga 300

agatagtttg ngctgggatt cagagctntg catgtctaga gattctagag agagaaaggt 360

ccaagttcca gagagttttg ggagattttg ttgtgtgaag atct 404

<210> 12835

<211> 327

<212> DNA

<213> Glycine max

<400> 12835

tctcaaggaa gttgtctcaa tatagcttct caaggaagct atttactcta taaatagaag 60

catgtgtaac actcgttgta actctgatga atgacagtct tgcgagacac aactcatagt 120

tcaacttctc tccctttttt cttccttcaa ttctgagctc ccctttctct ctttctctcc 180

ctctttcttt tcttcattg aagcatcctc tccaagcttc ttatccaagg cacatcttgg 240

tggtgaagct ccttcttcca tggcgatttc cctagcggat ggcgcgcct cttacctctt 300

ctcctttggc ttgcgctgca tctccat 327

<210> 12836

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12836

agcttatctt acctatztat ctcccagntg tctttgcaaa gattcaatag ataaaaaaca 60

tgaagttcta attcaagatg ttntctttgt tgcattgggca taatgcaatc actctatgtc 120

tagcaatgat tntattaaga tgtccctacc tttagattct actaaaaatt atcctctctc 180

gagcgactaa tctctaaaac tgatgcatat aaaaccttca atgtatttct actaaggatt 240

accctttttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacat 300

gttggcattn tgggcctgcc aagccctaac taaaggggtt tagcctttca ttgtcatgag 360  
agactcttac actttacgng gttgatatgg atggaagaag atgg 404

<210> 12837  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12837

ntacttgtga tgagcaagtt tccnctagcc atcgntgtcc ttataagcaa catTTTTgttc 60  
tacagtggga agaagaggat gatcctgcat tacaaccaga tccaccagac gaggttgaga 120  
cagttggtga cccagttttt caaattcatc atttgtctta taatgcttta naaggctcat 180  
caggtcttgg aataatgaag tgcagattgc gagtgcagat tctactagat agtgggagtt 240  
cagataactt cctccagcct atactaactc aatgcctgat gttacctgta gaaccaattc 300  
ctaatttgca agttttgggt ggaaatggaa atgccttgac tgctgaagga ttaattcaag 360  
acttgagggt gaacatccaa ggtcatcac tgaagctacc agtttaccta ctttcagctt 420  
ctggtgctga tctagtgc 438

<210> 12838  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12838

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acttttgttg taggtccatt caaatcacat tttagatttt gaaatgggtc cttctcaagt 120  
gacattgttt tcaacttcac ggcttcttcc aaaacaacac cagtggcttt ttccattcca 180  
cagggaaact tttatccctc attntaatgg acataagctc acagccggaa ggatcanata 240  
tagtgtagct catattntta aaaaacaatg aataattcct ttctagcatt tgtccaacac 300  
tcanaagatt ntgttttctc tcagacacta ataacacatt tganatatan tttgtacctg 360  
ctggagtntc aacagcgaca actncttttc ctttacatca acacattctt cg 412



<210> 12839  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12839

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 cgtcctttgt cacgggaagc cggaaggctc atatcacctt ctttaattgta cacatggngc 120  
 actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180  
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240  
 gcatttgtcc gttatcatat tccggcctca ctttttgcac gagtcatggc atcatcatgc 300  
 atatgcgttc aacaaacatt ttgatctgca aaattgcata ccatttgtn tcattgtttgc 360  
 tcattcct 367

<210> 12840  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 12840

actcgggtca tgcgggtgaac gcctctagtt caacaccggt gttgtctaaa gtaccacccc 60  
 agagggaac tgcccaagtg tcaactccga acgcgactcg accggacgga attccaacgc 120  
 gacaaggaac ttccctccga ggccgttgcc ggaattcacc ccgctcccaa tgacgtacaa 180  
 agatcttcta ccatccctca tcgccaatca tttggcccg gtaactcccg gaagggtcct 240  
 cgaacccctt ttcccgagg ggtatgacct taatgcaact tgcaagtacc atggaggtgc 300  
 ccccgggcat tccatcagaa aatgctcgcg ccttaaatac caaggccaac atctaattga 360  
 tggcagatgg ctgactctcc aagaagatcg gccaatgtga 400

<210> 12841  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12841

agctntgccg atttagtggt tgctggcgaa aggatcgaag tgggtctgag aagaggcaaa 60

tttgaatatc ctactttgat gaataggaag cctatggcaa atggagagaa taagaaggag 120  
ggaggaaccc atgctatgac tgtcattcct tcatggccaa atttcccacc agctcaacaa 180  
taccaatact aagccaatat cagccattct cattaccac caccctatca gccagaaca 240  
cccaatcatc cacanaggcc acccttaa atccacaaa acccgctgc tgcatacca 300  
ataccaaaca ccacccttaa catgaaccaa aataccga 338

<210> 12842  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12842

gttcgattca ttctatgtac ccgtagtggc ccatattgtg tttcgtgcac tttntttctc 60  
gttntgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120  
ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ctatccatta 180  
acttcggtta aaataaattc cgaccgttcg gtcatgccgt aaccacgttg gaaatcaaaa 240  
agaggtaaaa aataatataa taatcaaaaa gatattcttt agtaaaataa agcggaaaat 300  
caagtggaca ttgtctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360  
tgaaactaaa ggctaaaaac aattcgtcta gtcgagctcg tccataaaaa ataggctttt 420  
gaaagtggc atttcatttt ctactaagt agaatggatc at 462

<210> 12843  
<211> 624  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12843

tgngaaaacc gtctttggan anccccnttt ttgganngcc catttcgagt ncatctacta 60  
tgagcnggca tcgtcgagtc tacgagtacc tgcgttggat tcctactacg aggtcgatca 120  
ctgccacagt catagacgca tgcattagct tgtagtanag taagcatacg tcacaatata 180  
tgctagcact gtagcatata gctgctcgnt cggtcagact gactcttaat gngatctata 240  
gggacatctt cagcacataa tactgaggca cctagaatac tctgcggtct tacaaggaaa 300

acagatgaat catatgtcat catactacat gtcacaagtc gcgccacgat acaccgtgga 360  
tccaacagtg gatgtggatt tagatatcat ctactcggc tcttctanac actgagacat 420  
gaaatactga gcatcagcat gctggacgct ttgcttgtag actggattta gctaatatcg 480  
tcacacgaag ctgacatgat acacaaacag gcatctcatc tagcaccct ctgttcccgt 540  
gcgctttcat aatatttgac agtctttacc gtctaccgtg ctatttcgcc gagacagagg 600  
gcatatcgac gacgccacca ctan 624

<210> 12844  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12844

actcagctat ctgctcaaat ttcaagcncat tatgattgct gagcatatgt tagcacctaa 60  
tttcaggaaa atacacaaaa gtaaaatcag gtcataattt tcatgcaaca atctaggtat 120  
gagtcattga tagccaccat catcaaatat taaagagatt acttcagagg tgatcattat 180  
aaaataaaac tgtcaaagag aacattttgt agtgtcaca tgtataaaaa tgctcataca 240  
taacatgccc cagatcacat agaagaaccc acagcataga acaagcaaga aaatggtaga 300  
gctatacagt cctactaaag atagtgaag agatatctaa gagaaagggt aagcacattt 360  
tgaccttaaa actcgtctta cagcatcgt tcctttattt ccttttcaag agatagagca 420  
acttcttaat gtgcgagaga caattgtttg tac 453

<210> 12845  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12845

agcttatcta attgtcactg tgagcacctt tntaagacta tgaatctacg agctacatct 60  
ctccctctct ttagtgaaag gaacaaaaga aattatgtgt ctattgtcta acatgctacc 120  
ctttttcaga aacatggcaa tgtctgcttg ggaattctag atggcactga nataggacta 180  
ggaaatacta acataattgg aggtgagaaa atttcaaaca ccactaaatt ttgaggaaga 240

cttgttttct ctctttctat ttgataattg attgtaatac attntgtttt gctcttgaca 300  
gatatctctt tacaagataa gttagtgatc tatgac 336

<210> 12846  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12846

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tttgacaacg ttgatttaat ggtgccctgt gggacaagat tcccatatct tgagtgtttt 120  
aagaattatg gaattttttt ttacttaaatt tatcaaagct atactaagaa aggatcattg 180  
tttttttttt ttttactgca caaaagggtc attattaaac gtagggagtg tgtgattttt 240  
taaaactaaa aactaaattc atatattttt ttaaaataaa tataaaaatg ttttaaacac 300  
gagttccatt ttgggtgaac aaattgatac atataaaaaa aaaaatcaga ggtaactgca 360  
ctctatatct aagagtgcatt ttggatagag aattctaact aaagaaagta atttatcaa 419

<210> 12847  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 12847

agcttatgat aaacgggacc atagagtgac acgtaagcct aatcgggtac gctgaatata 60  
tgaccgtccc aaattcgcaa tcattgatcg aaacatctac tacaatggcc tgactaatac 120  
gaacactcgc accgatgcgt gaactgatac tacgatgtaa aactatcgag ctcatgtgcc 180  
cgtgcattcc tagcgtatca gagacataat accacttcca ttctcaaatt gtattatgta 240  
tggacaacac atatgtgtag cttgctagaa atccagggtc actgaaccat cagttaagcc 300  
tgccggagatg tatgggcagc aacgtttcac aaatgcctgt gttgccctta catagtccaa 360  
gctatgatac cg 372

<210> 12848  
<211> 229  
<212> DNA

<213> Glycine max

<400> 12848

tgcggtgtga gattgccaag ttgcttgaca ctgggcacga agccacggat cgcattaagg 60  
gctacatgat ttccatacac tcaaggagac aattagcgga cgccgccaca tcagcgatac 120  
tagatatcga gctcgcattg cgaccgacga ccgtaatacg atctggcctt tgattccaga 180  
ctcaggggatg cctgccgatc ttgaaacctc gcttatgatg tacagtgct 229

<210> 12849

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12849

agcttgaatg gagaagacac ctttntgaca atgaggtgca agcggcagcc agtttcctgg 60  
atgatatctc gcgngtcat attgatcggg ggacatcaga ctgctggggtt tggaaaccag 120  
aacctaattg ccagttttct acaaggagcg cataccgtat gctactagaa ggagcagctg 180  
atcagactgt ggatgatgct ttagaggacc tatggcagct cataatccct ttataagcat 240  
caacatttgc ttggcgattg atcaaagaga gactcccaac taaaggggaat ttgtggagaa 300  
gacgggttca gctgaacgat ttgatgtgcc ctttctgcag tagacaagag gaggaagcct 360  
cccaccttgt ttttaactgt ccaagaattc tccccttat 399

<210> 12850

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12850

tggatgcaag agttagcttg gctcccgaag attaagacat tttgtgagga agaggttgaa 60  
acccctgagg agagtaaggt ggtgcaagcc ttgaaggagg aacttgaaag agtgcaagtg 120  
tcgcaacgtg cccttttgcg ggcgagcgag gcgaggctca cgggtgcggt ttccaaagga 180  
ggaaagatgc gcggagtcgc caccgacgtt tatttgtgga aaacgtcgga aaaaccgaag 240  
gaagccgatc aaaatgaaaa ttctaagttt gggagttgta tttacgcttg aggaaggtat 300

tagcacctct cacgtttgtc tcanaggaca acagcctatt ntttagaatt gtggaattgt 360  
 gttatcttaa ctcttatttc tttatatttn ttgaggtcga caaaagcggg gctcttgctc 420  
 ctacgtaccc tccatcagag aggaaatcag acctacgtag ttcttcctta tgcgtg 476

<210> 12851  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12851

agctntagga gaaaccatta aaactaaagt agttcctaaa caaaaatcaa ttgagggagc 60  
 ctgcgcaagt gtcccatcg aaattgaaaa acctttattc aaacctttca aagttagtga 120  
 gaaggctaaa cggaaaatta gggaacttag aaaaactaaa tccttaactg aaggcgtagg 180  
 tgacaatcat agtgaattac taaacaagat tggtagttta ctttaaggta ttccagatac 240  
 tccccaagcc tcggaaaata cttctaaaat ggtaacaaga agtacctcca aattaattaa 300  
 tgttattaat gaagatagtg accaaaactc agataacaca actgagatag gatcagtatc 360  
 agagaagaat ataaatccaa ttaattccaa aaactggaaa acaccctcca aattatatta 420  
 tcaacgt 427

<210> 12852  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12852

tctcgagagt ctgccttaac cgaaggtagt cattaggtct ttgtagcctc tggtttccac 60  
 tctttctcct acaaagccga ggagttatcc acagtgtggt tggactatat cagatgagac 120  
 tttgagcctc tcgaatgtcc tctagtaaag tatatccatg gaactacctt ggtcgataag 180  
 gaccttggac accatgaaat tggcgatcat gatggagaca actgtcgcaa cctacccttc 240  
 gacgggagga caaggcgaga tcgaaaaagg cgtcttctca tgaagaaaac gtgcgggagt 300  
 cgccaccaat gtttattcga ggaaaacgtt agaaaaacca aaaagaggtc tgcaaattnt 360  
 gaaaataagg gttctggagt tgtttatgca tagggaaggt attagcacco cacacgcccc 420

gtcacaaggg acgacagcct ntaatcgagt gtgcataaat gtgac 465

<210> 12853  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12853

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ggcaaaattg gatgagggca acagtgattt cgaaatctgc ccaatttgtg cagcaaaaag 120  
ctgtcaaatt ttgtgcaaca gaaaattgtg tttgtgcaga aaatgttgtg tattgctggt 180  
tgtggaaagg gtagtacata ttcggttctg gacattntct agcaaattccc aacgggtcaaa 240  
atgtagactt atgtactagg gacctccagt aaaattttctg agtcgatcca acgggtgaacg 300  
aattggaaca aagagaatgt tattngngta tttgagtaag gaaagctgtg gtattgggtt 360  
gtgttttggg cagagttttc tgcctctgcc ctgttntctt ggttctgata atncatgaat 420  
gttg 424

<210> 12854  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12854

ggcctataat actcagcttc taaggagtga gcttagttat gagaggggtg tgtgtagcta 60  
agctctagct tcttaaggaa gttttctcaa agaagcttct caaggaagtt ttctcaagaa 120  
agcttctcaa ggaagctacc tagtgataa atagaagcat gtgtaacact ttttgtaact 180  
ttgatgaatg agagtcttgt gagacacaac tcaaagtta acttctctcc ctttttcttc 240  
cttcaatttc gtgtccccc ctctctcttt atctctctct ttcttttctt ccattgaagc 300  
atcctctcca agcttcttat ccaagggttca tcttggtggt gaagctcctt cttccatgct 360  
tattccttaa tggatggcgc cgcctcttac ctcttctctt ttgtattccg ctgcatctcc 420  
atggtggaaa atcaccatta aaggacctca ttgaagctca nagatccagc ctncatagaa 480  
gctccacaag c 491

<210> 12855  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12855

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 gttattattg aaaattaaat ttgtaacata tactacttca ttaatcaccg ataaccgtta 120  
 tggcttcttt atatatagaa ctagctatat atgggcttgg gtttacagat catttgttta 180  
 acccgttagt tatacggggt tgagtcctg ggtaaatggg ccagttagta gacaaactac 240  
 tttttgttta aaaaatatta attgctattt tatactttta ttctttaatt aagtatttgc 300  
 ataattatta tttggtgttt ggtaatatat gtcgacctcc ttggtagtac ttgaatattt 360  
 atgatttctt gttgaaaaag ttaaagatat tgagttctta atgctntatt tgatttgaca 420  
 cttgatt 427

<210> 12856  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12856

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 tatgcaagaa gcatatgatc aaatgcagac tccattagcc cgccaaatac cacctgcctt 120  
 ggtaagtata atcctatgat tccaattga cttgaatttg tgatctctct ctcttttacc 180  
 ctatatcttg ttcttcaagc aggggctaaa ggagctgaag gaatccacca tccaactggc 240  
 ttcaagtcac ggatacattg attccctgt tgatgagact gttttcgatg tggataacga 300  
 tgttgatgac cttctgccag ttgaagttaa agaacagcgc ctcagcaatc tgctgcaggc 360  
 attgatgggt gcggcttggt ttgctgctat gcctcttttg aagaagatac caacttcagt 420

<210> 12857  
 <211> 405  
 <212> DNA  
 <213> Glycine max



<223>        unsure at all n locations  
 <400>        12857

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actgatttcc ttttatgcat aacaaatttc tttcattcaa ttctcttcat ctttctaaaa  120
gtttttgttc aatactttct ctttcaagaa aagttccttg accaaaaact tgtgctattc  180
tttntcttta ttccttctct ctgtcaaaa gattgaaagg actaaccgcc tgagaattct  240
tttgtttctt cctttctccc tcttaacaaa agatttcaaa tgactaacca ctgaaatat  300
cttttgtttc ttacaaaaga tttcaaagga ataaccatct gagatatctt tnttcctttt  360
cccttanaca aaagatttca naggactaac cgcttgagat atctt                      405
```

<210>        12858  
 <211>        465  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        12858

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cctggagata tgtcgcgagg gtcaggagac cttgnngacg tcaggtgggg tgctattgcc  120
caaaaccaag cttgaccaat cccgaccgaa cccgggcata gtcagtcagt gagaacctgt  180
gacgtaccta aacaggcgag ctctggcag tcaaccaata aaagaataaa gaccacaaag  240
caagaaggct tgtgtggtgg ctggccagct atggatcttg agtgatattt ggaatatggc  300
ctctggtaat caattaccaa ggggtgtgtaa tcgattacaa ggcttanaaa tgaagacaag  360
aagttaagat ggctctagt aatcgattac aagggtgtgt aatcgattac aaggcttaga  420
aatggataca gggagttgag atgacctctg gtaatcgatt accaa                      465
```

<210>        12859  
 <211>        416  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        12859

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agcttgctgt atatccacgt angaacaaaa tcttaaataa gatcggtcct tatacaaaaa   60
atatgatctt aaaaaatttg tggatcaaca tgtttgtatt tatctgacaa agtgataaaa  120
```



agaaatagca tgtccgatgg taggagcccc acacgcagag aagaactgct cacaaacacc 360  
ctctaaggac atcccagcag aacatggacc tgcgacaaaa gcagataatc aaccgtcag 419

<210> 12862  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 12862

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tcgcatgtca gcttgtaact ccaaagcatc aaacctttca ccaacaaaag tttgaagacc 120  
atcgaacctg accaaaaatct tttgaagaag agaggaatct tctccaacta ggaagtgccc 180  
ttcttcatca atggggttgatg cacctttttt caccgaagag ccatcatgct ctgtacggta 240  
acaaaaagat tcaatcaciaa cggcgccaat taagaaggat ctcttgattg gaagataatg 300  
ttcagaatca agaggggatgc taaagtgtcg aacgaagaga gtgactaagt gcggatatgg 360  
aaatggagca tgtaatcgca atgccttatg catgcgacat ccgactaaga gcgccgaatc 420  
aatttgttgg agcataccct aatttc 446

<210> 12863  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12863

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acacaagagc atgatttatt agagaaatat atttctatgc atcagcttat ttgttagaaa 120  
gaccaacat atctacctac tgctgtcatt ntatttacct tgcattntat agtttttagc 180  
acacaagttt agtttaaatt ctgtttgaaa ttatcactta tacatgttct ctcaacaatg 240  
cttcgattct gaacttaatt caggctaaca ttangtcctt gtgttcgata ctcggtattca 300  
tccgttntaa ttntaaatac ttgacgaacc agtgcgcttt ccggtgaaaa ctccccaatg 360  
aaatttcttc gagacatana tgcacaaaaa gtaactgaag t 401

<210> 12864  
<211> 453

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12864

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atggcgccctc ctctcacctc ttctcctttg tcttccgcta catctccatg gtggaaagtc 120
accattaaag gacctcattg aagctcanag atccagcctc catagaagcc ccacaagtaa 180
gcttccatca agtggtaatc agagcacaag agcttcaagt aggtgctcct tanacctcca 240
ttaattnttt ttctttacct tctcttccat tgttggttct tcatttttct ccatgtatct 300
cctcacatgt cttgttctaa atgctgttaa catgattctt tagagtttcc accgattaaa 360
cttgctatag aagctagatt tgattntcta tnggtgaaat ttcttggtct tgttcttgaa 420
ccatgaattg tgttgagttt aagttccttt gag 453
```

<210> 12865  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12865

```
gaccgtgtga gcattgaaca tgaaacgcn ntcagggaac caggagcatg agacgtcgcc 60
gttttacctt ttagagcggc caaggaatag gggccgcggg aagtgacaaa acacgaggcg 120
agacaaacaa cgtacaacgg aagaagcacg tcgттаатга gaagaagcga cggcatcgca 180
cgagggatac gaacggagaa agggcagaag actccctgca gaccggtgga aagaacttga 240
aaggccccgta tggtagaggag gtagaccaga acagaaacat gaatggcctt tgcactagcg 300
tcgcgcgggg cgaccagca gcagccccc ctcaccccgga agaaaacc 348
```

<210> 12866  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 12866

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gggtgacctt gactgaacaa gatactgcgg accaactttg gctacaattt gggtagaact 60
ccggcttaca gctcccgacc agcgggttcg gtcgatcttt ggctaagtgc acccgcaaaa 120
```

acgggcaggc aaatatgaat gagagacggt catgctcgct tttaaggtat gaacatttaa 180  
 attcagggag gccactaagc gaaaggaggc ggaggacata aagcgcttat aaagagactg 240  
 atggccc 247

<210> 12867  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12867

tagggaacgg taatttatac gaactcgac ccaatacggg gtattaagga cttggtgaag 60  
 actganaagc tctgtgctta gatgattaaa aaacacacca tcattcgta gttcacgctg 120  
 atctatggca agataataat gacattcgct aagttatagc acggcactag aactcaaaaa 180  
 ctttttaagt tccttcatat aatattcatg tatgattata aattgtcctt gaagttcaaa 240  
 atatatttaa aaaagtgaat tcactatatt aatattgtcc tcacaagact tattcttata 300  
 tagccttggt ctttgagtca cacattctta agatatttcc ttttacacat gttcttctaa 360  
 ttagacattt ttaatacatt ctctcttatt 390

<210> 12868  
 <211> 178  
 <212> DNA  
 <213> Glycine max  
 <400> 12868

cgaatccgag ctcagtaacc agagatcctc tgaggcatct gcagcgtctt ctgctcaaaa 60  
 gaccccgag aaatcttact actcatagac cggaagcggg tgactaatga ctctatgca 120  
 gctttcacat aaagcatata tgatgggcag atcaccaaga tgtctcctc tcctgaca 178

<210> 12869  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12869

tgaggcctgg tgggtgtcgt ggcggnggaa gtaggcttat ttctcactcg ncctcctctt 60

cctctctctc cgccgatctc cctctctcgc gccctcatgc ctctttctct ctcaagggtca 120  
gatctcgttt tgattatttg aatctcggtt cctatgatta tcttgtttga tggatacgct 180  
attacttatt attattatca ttattatagg aatggactgt gagtggagtg ttgagagttt 240  
gaaacttgca atgtcctgat tctaggtggt ggcactcggg tatgtgttct tcgctgcaga 300  
tatggacaga aagtcacaac gtgtgggctc tatgtgggct cgggagagtt ctagattgcc 360  
catcaaggac ccacacacat tctgcccgt ttgcctttca actatgggtat catttatacg 420  
ggacgggaga gatctcagct acat 444

<210> 12870  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12870

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ttcatctgtt cttgcactcc ctcttcgtta tccatccttc tggatcgagt gttatagggg 120  
tgcctttgtg cctttttagt tatggcgagt tccctgaaga aacaaacagt ggtgagtatg 180  
ccacaaaaac atgaatatgc taatgaatga tcagagcact tggatccacc tcaaggcctt 240  
ttttagataa catgattagt ttcagaactt ctttttataa aaaggaacaa agctnttatac 300  
tagccaagat cgtacaaaag gtgttacaac agaacctaac gggttctaata tatatgggcc 360  
atcaaatacta tctgtgttgg cagtaattaa ttagctcgtg aatttccttt ggggctgaac 420  
acac 424

<210> 12871  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12871

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attntccacc atgaagatgc agcggaagac aaaggagaag aggtaagagg cggtgccatc 120  
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180

gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240  
cacgaaattg aaggaagaaa aaggagagaga agttgaactt tgagttgtgt ctcacaagac 300  
tctcattcat canagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360  
tccttgagaa gctntcttaa gaaaacttcc tttagaaact tctttgagaa aacttccttg 420  
agaagctaga gattagttac acacaccct ctcataacta ggctcacctc cttga 475

<210> 12872  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12872

agcttctata taagctgaac cattntatca ataaacacaa gttgagttnt attcagaaaa 60  
ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgccct cgctggaaag 180  
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240  
ttcacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
tgattcttga gcctaaattg aatttcaaaa ccagaccttt caccgcgttt tggaatcacc 360  
tcatttgag cctgtagct tcagttattg ccaattctat atttctgtcc agccaccact 420  
t 421

<210> 12873  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12873

ntcactcgaa tgtccgattc atgcgcatca caattcgaga cttctcgaaa ttgaacaacg 60  
gaagctcttg atatattcaa atggtcataa cttttcactt gagtgttcga ttcaggcaca 120  
tcacatttcc agacgctcga tattgaacaa cgaaagctct cgtatattca tatggtcata 180  
acttttcact cggatgtgcy attcaggcgc atcgcatctt gagacgctca aatttgaaca 240  
acagaagctc tcgagaaatt caaatgggtca taacttttca ctcggatgtg cgatttaggc 300

gcatcacatt tcgtgatgct tgaaattgaa caacggaagc tctcgagaaa ttcaaattggt 360  
cataacgttt aactcggatg tctgactcan gcgcatcaca tttcaagatg ctcaaaattg 420  
aacaacggaa gctctcgaaa aattcanatg gtcataactn ttcacttgag t 471

<210> 12874  
<211> 426  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12874

agcttgctca gtcaaaacac aatccttggtg aagttgatgc acaagagaaa ttgacaaatt 60  
gagaaagaga cacatgaacc tggtaagctg aagttgatgc accaaacaca aaaccaggaa 120  
gtacgaagat catatctaata ccaatgtatc ctaattacac gatactagga atgaaatctt 180  
tacaataaca tcaaattgaca tgcacccatc ataagtcacat gcaaattgaa tacccttttt 240  
tttctaagag taaaaaaatt gaagttacta cagtatatat aaaacatcag aaaattgcaa 300  
atgaattaat gatcctctaa tgtatccaac atacaaagtt gctgccataa ttgttctaata 360  
tctttgatga aaccacagga gaaatgtact tgtacataat gtaaatacana tntagcaact 420  
gcttta 426

<210> 12875  
<211> 467  
<212> DNA  
<213> Glycine max  
  
<400> 12875

taatgttaac aatgggtgggc gtgcataaac gtctttgtta atcacaattt ctaccacgat 60  
gattccaaat acaccgatgt agataaccta cgttgatcc tactaagacg gtccgcaaaa 120  
taaacgttgt tgtatcagtc acatgccatg cacatgactt ttaaaagtgt caaatattta 180  
cgacaatgcc accggttacc ctactacgac ggggtttatta cgaccaatgt aaaatgcgcg 240  
tcgtaaaagg cttttttttt agtagtgga agttcgggta ggctctcaag tgggtgacaa 300  
gtctcgttta ggtagtcttt ttggccttgg ttaacaagaa aatcgagtgt taggtacaaa 360  
aattggaaag ctccactaca cataatagtg gtattattta tttcaatatt gggttctgca 420



ttcatgggta gtttgcttat tttgaccgtg tggctctctc catttat

467

<210> 12876  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 12876

agcttcaccg gatgacgctt atcgaacatt tcctaaccga cgtcatgcag atttcgttca 60  
gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
agccgacatt gcacaattct ttttagaaaa gctcgtcgtt cgataatggt ctttttacgg 180  
cagagtaagt tttcttggtt tgggtgttgc taaaaaagtt acaatgtact tcggctaggt 240  
ttttcgtgcg agttcaaccg acattctggt tcggtcagga aaacattagc ccacctctgc 300  
aataaaaata tttgctatcc gtcttcatgc atatttcatt caacgattga atagataact 360  
caatagccga caacggtcgt gaaatagtcc cgactgatat ctttcagccc gcatt 415

<210> 12877  
<211> 460  
<212> DNA  
<213> Glycine max

<400> 12877

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ttgaattgaa aactcattag ccgacatcgg tcgtgaagta gccccgactg atatttttca 120  
gccgacattg agaataattt tttaaaaaaa ctctcactgg cagataatgt tgatttttac 180  
ggcagaagaa gttttcttgt tttggtgttt cataaaaaat ttacaatgta tctcggctag 240  
gtttttttct gcgagctgaa ccgacctttt gtttcggccg aaactggcat gttccaatta 300  
attcggccag gaaaacatta gccacctcgc gcaaaaaaat atttgccaac cgacttcatg 360  
catatttcat tcagggattg aatagaaaac tcaatagccg aaaacggtcg tcaaatagcc 420  
ccgactgata tttttcagcc gacattgcgc aatatttatt 460

<210> 12878  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 12878

actaggaaaa gacagtaagt ctgtcgtgcg tggaaactga taaaggctaa agagacttca 60  
gtttaatact cacaccctac attcttaacg atgacaatta ttcacgtgtg attaattctt 120  
aaaatcacag actaatccta tcatggatct atgagagaat ctacacaaaa atatatgcct 180  
tacattctta atccatagtc aaaaatctac attactatgt tagctactta taattaacaa 240  
a 241

<210> 12879

<211> 205

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12879

ctcctatcac acatactgcg tgagaacggc tcttcctaga gggtaattat gtgtcttttt 60  
gttccttggg acgatgcgtc gagggagcct atgatgtagc agctgaagca cacgattgtc 120  
tcacatatag agtgtacgaa tagcaccagc ctttgttntt gtggcggatt gagtgatggg 180  
actctcgagt accattgtat tataa 205

<210> 12880

<211> 374

<212> DNA

<213> Glycine max

<400> 12880

tagcttagtt tcataggatc atagtgcagc ctaactgtgt gtacttcggt aactccagtc 60  
tccactcgga ctttcagaat agcagagttt cagtatgata aataactaga aagatccaca 120  
aatcaatatt gaagggatc agttattaca accaaagtgg ggaaaattca gattcatcat 180  
agatagatta gtaggctaatt tttgcatatc tgacctgctg atgagactgg aacatgataa 240  
tggtgtagaa ctccagttgc tggaagatac cttttttgaa cattatcagc atagattcga 300  
gcttcataag catgacctgc catcacatac agagttataa tatactgaaa cttcaaggcc 360  
tctaatagat ggat 374

<210> 12881

<211> 409

<212> DNA  
<213> Glycine max

<400> 12881

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atttttcgcc cttcatccct caaaaaagat aaagtgtcga gaacaaagaa tttcttggaa 120  
tttggttaat gctctagtca ataaatgtgg caagccccaa cattcccaaa gttgccccaa 180  
ccgtagctgg ttttaggaatt tgcaatctta gtccgaaaag gaatgaaata cataaataaa 240  
tcttgcaatg aatgcataca tgcattgttg tgtaaagtgt atatttcttg actagtctgt 300  
tcagaattgc tagctcgaac gttttaactc taggtctcgc taactgggtgt gtattttaat 360  
tcttacgata ttggttatag atataaaaata aataactatt tattaaaat 409

<210> 12882  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12882

agcttggatt tccttttagt agggaaatcta tccttcctaa gatggagcca aaccagtc 60  
ccctcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttgtt 120  
tggttctcta tttggttctt aaccctctca tgcattctct ttacaaattc tgacctagat 180  
tccccctctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacgggtgtt 240  
aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300  
ctgtttagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360  
agaagagccc ttannagggt ggataaagac ctattcacta cctct 405

<210> 12883  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12883

tgcacagntt ttattaggtt ttaattgttc tgcatactta acaatcgtgg ttntaaattg 60  
ctgttgtcgt tgcgattcctt gacattgcgt gaaaatgtgt ttgtcatgat ttggttgcag 120

agaatcgtaa aatctttatg ttgcggtcgc aattgtggtt atatatggat catgatttaa 180  
aaccatacta acaattttgc gcttttgtgtt tatcaatcga ttaattgatg attgaatgtg 240  
aaaattaata gaagtttttg gcaatgtang gcaatgagag gctccaacaa ctcaagaagg 300  
ggcttatcaa accaatacga tgggtccatgc aaggcgacaa accccattga caaatgttgg 360  
agatgtga 368

<210> 12884  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12884

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atgatgggat gggtcttagt gctagacgga ggaaggacta caaattgagt gggtggcggt 120  
ccgtgatgga gtttcaatag tgaaatatga aacgtgggat gaatcttaga agaagatggt 180  
aactggagtt tgtacaggac agggcccacg cgttcgagta tttggaatgg accgtanaat 240  
catttggcca acttggtgta agctggcgca natgatgttt ggcgatatgg tctaagacat 300  
acatacacc agttgcctac tgtgaattca agactacgac aatgagtggg tgcacagttt 360  
tatgt 365

<210> 12885  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12885

ctttcaaagt ggtaaaaggc tcacgtttac tttcttctac attatattca aacttgtcca 60  
aataaataat aaagtcattc cgactcaaag aaagtcatat aagtctcata caattaatat 120  
aaaacctata tcctaattgc acatcctatc agagcgtggt gttcccgtgt cctctagcat 180  
gaggttcttc atagtcattc acctattcat ctgctcccc gaacacaagt tcaagatcat 240  
cacaggatcc aaacacaaca acacacaggg agtgagttat cacattccta actaatagag 300  
aaacaagaca attaaatata catattatat aaatgagata ccacttgctt aaacatagct 360

cacgtaactt caccacttcg tcattcanaa ttcacttttc aattatcaat cacattacac 420  
aagaatccca cacttcgatc aagatataat aacacatcaa tt 462

<210> 12886  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12886

agcttcatac gacacgtgac cccccacca tggccaaaag tagatcacta tattacttct 60  
tctttaggca taaagatggt tgtaaccaat catacatata gagtgggtgtc attntttcgt 120  
tttacatacc aaccaagact aggacctgac tcttgccatc tctcanacca attcgctctt 180  
tanagatttg cactanacaa catatagttt ctttatagcc ctatactcaa gaccatagta 240  
aactagacag atttccattt aacattccct gctanggagt gcaaaaaccg gttcataaaa 300  
aaaataatcg aactgtnta acanatttga ttttatatct aaatagtcaa actatnttag 360  
aaaattgttc caaactagat tgatttaaaa aattgattct ga 402

<210> 12887  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12887

nttagtattc acacacacac agagactcac acacacacac attcaaacac acacacaagc 60  
ctaaaacgca gaagctgtcc aaagctaatt agtagtatgg attgccttaa ggtttgtctt 120  
tggtgggtact ccattttttt ttcttcttag gctgaacttg ttctagtacc ccactaatta 180  
gttttttagat aatcattaat aaaactgggt ttgtttatgt tggttagaac attntaaatt 240  
gtgtactagc aagtcatttt caattgtaac attatctaag tccactaaaa aacataactc 300  
gtctggtagc tagagttttg tcaattaaat tgagtaacat ggctcgaatt tctctgtaca 360  
tgctagaaaa ttcttagcct gcatacataa cacaagtcac tctgtactct agtctataca 420  
t 421

<210> 12888  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12888

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 cctcgcccag tattatgatc agccactgag gtgcttcacc tttggggact tccaacaatc 120  
 acccatggta gaagaatttg aagagatcct acgatgtcct ctatggggaa ggagaccata 180  
 cctcttctca gggttctatc ccttattagc tagaatttct aaagatagtc caaatctcgg 240  
 tgcgggaatc agaccacaga cagcaagttg ataatgggtg ggttgaata ccaagataat 300  
 at 302

<210> 12889  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12889

ntggcagatc aaggatattg gacttcattc attgatatat tagcattgtt ggggctcggg 60  
 accatactct ttccaaatgt agacggccta gtggatttag caacgatcga cgcttttctt 120  
 gcttatcacc acaataagga aagcccggtc attactgatg caatcctccc taggaaggga 180  
 caagtcacta gagccatgag caaaaggctc caagaggatt gggcaagagc tgctgataaa 240  
 ggccctacgg ttcttatgaa cctcagggtg gatttctgag cccatgggcc aaggttgggt 300  
 ccaattatct ttgtacatat tatactagga tgtcattata tgtgatcctt gtatttagga 360  
 gtccataatg taagtagggt accctagaaa tatacgagtt tntagccctt gtattttacg 420  
 gcacttagac tactt 435

<210> 12890  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 12890

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cgcgactggt tcctctcttg ccttcgcagc ttgagttcac tattgctacc ccacagagct 120  
 ccatgaaatt tattccggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg 180  
 gctcttgcag tagatgcatt ctcttcccggt aaccgcggcac actccttacg aatgtgtgta 240  
 gcggccaact tgaacttctc cttggcaagt gtgcgccttcc ctaactcgct cttgagagct 300  
 tggacttctt cgtcctctta cgggtgctctc aaactttctt cgatgacgac ttttaactat 360  
 gtgagaccat ctagacctcg atatgaactt t 391

<210> 12891  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12891

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 taatgagatc atttcatatt gtgtgcaaga agaggaaagg ttgaagcaag aaaggactga 120  
 aagtgttcat gttgtgagta cctctaaaga caagggcaaa agaaaaagga ctgaggagcc 180  
 caagaatgaa gctgctaata tcatgcttgg cgtgaaaaaa ggtatgtttc ttactttggt 240  
 ctgttctgat gtcaatttaa ctttagtacc tagaaacacc tgggtgggttag attctagtgt 300  
 cactactaac taataacatc agtggtttcaa tgcanggttg cctaagctat cggaagccaa 360  
 tcgattctga aagatggatc tatgttgaag atggtaaatac agtggaagtg gaagctatag 420  
 ggcaactctac attattatta tgtactgcgt tttat 455

<210> 12892  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12892

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 cccactctc acgtttgggt ttttagggaa aaacaccata actaaacgcg ccacaaggca 120  
 tccctatcgc accagatcca tatttagaac gatgggtgat caagaggaga cacaggaaca 180  
 gatgacagcc gacatgtcga ctctgaaaga acagatggct tccatgatgg aggccatggt 240

aggaatgatg cagctcatgg agaaaaacgt ggccaccgct gccgctgtca gttcagctgc 300  
cgaagcagac ccaactctct tggaaccgtg tgccatcctc cctcaacat 349

<210> 12893  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12893

tatgcgcata tttccttacg aacgttcaact tgcacaagac tattctatca actaagacaa 60  
atgcacccat atacaatcaa ggtagcttca ttacctagat tatgtacttc caagggtgat 120  
ttgttattta catcacacac gcctccttgg ctgaatttac atacatgcat actcaaagca 180  
ttttggggta ccaaaaactg cacatgcgct catcttggta tttctaatac ccatacatat 240  
acaaacttca cgatgaatct tgactaccta cacaataagg tgctaccttt catgtttttt 300  
tttcaagtnt ttgtaccta aagccacatg caaattcaag catattttcc ttgtctgact 360  
aaaattgtat tcaaattaga aggtatatat ttttttgtaa tatgttctct tcacataaca 420  
tgcaacatat ctatatatat tttttgtgag acat 454

<210> 12894  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12894

agctntacag cagattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120  
aagtcacccc caacagccaa caagtcagcc accatttggg ctcccaaaag gctgatgcct 180  
atgttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240  
gattaaccca aaacatattt ttggtcagcc aactttacaa ggattggggc attatttaga 300  
cagactaaac actctaaaat tgaaacaaag tgggtgcatt tagtcctcct ccatttgggc 360  
catgatacaa ctcacacct tggacttttc tccttgaaac ttgngcttgt attcaaatag 420  
tat 423



<210> 12895  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12895

tcctctgccg tannaaaaac attgtaagcc aacaagcgtt ttttaaaaaa attgcgcaat 60  
 gtcagctgaa aaatatcagt cgggcctatt tcacgaccgg tgtcagctat tgagttttct 120  
 attcaatccc tgaatgaaat atgcatgaag tcggatagca aatatttttt tgccgagggtg 180  
 ggctaattgtt ttcctggccg aataaatggg aaaatgccag tttcggccga aacaaaacgt 240  
 cggttgagct cgccccaaaa aacctaggcg acctacattg tacatttttt atgcaacacc 300  
 taaacaagaa aacttcctct gccgtaaaaa aaaaacattg taagccagca agcgttttta 360  
 aaaaaaattg cgcaatgtca gctgaaaaat atcagtcggg cctatttcac gaccgttgtc 420  
 agctatcgag ttttctattc aatccctgaa tgaaatatgc atg 463

<210> 12896  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12896

agctttgatt tcctttgttc cgganacctt tcttttctca tgtgcaccca aaccaatct 60  
 ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120  
 ttcctctcaa tttgatcttt gactctctca tgaagcttct tcacatagtc cgcctttgct 180  
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300  
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttcctc 360  
 anaactgtcc taagcaaagt tcccaaagtc ctattaacaa cttccgtttg cccatcg 417

<210> 12897  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12897

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ntgagcacat tcaaatagaca ataactnttg actcggttgt cttattgagt cccgttatat 60
atccagacgc tcgaaattca gaacataagc tattagaaaa atcaaacgat aatcactttt 120
aactcgggtg tccgattgtg tcccgtagta tatcgagacg ctcgaaattg aaaactgaat 180
ctctaagaaa aatcaaacga caataacttt ttactcggtat gtccaattga gtcccgtaat 240
atatcaagac gctcgtatth gaaaatagaa gctcttagca aattcaaacg acaataactt 300
tttactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tganaaggga 360
agctctaaga aaaatcaaac gacaatgact tttaactcgg atgtcggata gagccccgca 420
naatatcgag atgtcgtgaaa ttganaacag aagctctgag caaattcaaa cgacaat 477
```

<210> 12898  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12898

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agcttgcttg tgtaatcgaa ctacttgact taagcacgca acacaaagaa taggttgtac 60
tagaatcaga aggtatggtc aggagtattc tttatgaaat atatctcgat atgagtcac 120
gaactataga gtatcatcat cgctaagaac aagaaatcac aaacaaccat actatctatg 180
caattaaggc agaacaccat tctacaagca tacctagaat tataagggttc ctataacaag 240
tatataacgt acatataaga agtaagaatt aaacgggttaa taaggatgta ttaaggaatc 300
acaaacttca acaactacac acaaaataaa gggaggttaag tattcatgtg tttacacatg 360
aagaaagaca cactcatcca aggcatatat atacgggttca naagggtntc acaacactaa 420
tccacacatc aa 432
```

<210> 12899  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12899

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tatgagtntg tggatgatgt gaggcttggt ttgtcttatg tattgcaata ccctccaagg 60
```

agtgagggttc acagaactgc aacaaggatc accgaggggtt ttgaggtcaa ttggaaaact 120  
 atgaaggaga agtggatgcg tgaggccgaa gagacgaaca agattttgcaa gagggaatta 180  
 catgtgtgtc caaatgaaag aagtcaagtg agtaatcatc tcacaaaaag gagcaatatt 240  
 tttatgtgct gattcaaaat agcttctcac cacaagtcaa gaaagctatg ccaataaggg 300  
 tcattatgag cagcatggac attaccctc ttcaagagtt tcatttaatt acctgggtta 360  
 ttcattttta tgtataaagt atctattgag tttcacgtaa gaagtttcta ctgtttctat 420  
 tttgagttgt aagattactc ctcaataaca agaataacaa gaaagttctg ctatattatg 480

<210> 12900  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12900

agcttccact tcaagaaaaa tgactataat atttaatgtg caattctacc aactccatac 60  
 actcgtattc gagattgatt gctaaaacca gggatttggg gatattctgtt ttggtaatcc 120  
 cgtttactta gtggaagaaa cattttctta aataaattgc acagaataac tatttttagga 180  
 aatcattgga gagcccagca atgatgaata acttcttttg gaaatattcc aattaatgct 240  
 aactatttta tgtttctgaa tgcattnttt cattaatctt taagagacat ccccatgtgc 300  
 attaaacca tagtttgtgc tccatgttgc aaggcctgaa tgaatatgac ggcacgtggg 360  
 gcagaagcag tatgttaaatt agcactctca gctagatgat caaagtgcac agtgagt 417

<210> 12901  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12901

tcctctctcaa gctgtccaaa atccccaaaa tgtcagtgcc atttcattga ggtcggtaaa 60  
 gcagtgtcaa ggacctcaac ccgtagcacc ttcctcatct gcaaatgaac ctgcccact 120  
 tgtctctaac ccagaaaaag gtaatgacaa aaatttacct aacaatttct atgcagatga 180  
 atcttccact ggcaattctg atttgcagaa gcagcacatc cctcctcttc cattccctcc 240

aagagcgggtt tccaacaaaa aaatggaaga tgcagagaaa gagatcttgg aaacatttag 300  
 aaaagtagag gtaaacatac ctctgctgga tgcaatanag canattccaa gatatggtaa 360  
 attcttgaag gagctgtgca ctaataaacg gaagcttaaa ggaagtgaac aaattagcat 420  
 gggcagaaat gtctccgcat tgattggtaa atctgttccc caaatcct 469

<210> 12902  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12902

agcttcgatg aaaatattga gtaaaaaata aactaattag aacaagtagg agaaatatga 60  
 ataaaaatca aagaagtatt atttttaaaa aattattgat aaaaagcata aatagaaagt 120  
 tatttaattt aaatgtataa attaattcaa acgttcattt cctaattgggt gaataggtac 180  
 ttctgaaata tattgnggcc ggtaatatag tccactttca ttacagtcaa ttgctagctg 240  
 ttaattaatt ataatttttc ttttatcttt ttactttgat ttattcaata atttttattg 300  
 gttaacaatt tcaaataaat tctttaaaaa aaattgtcat taatattact catcttgact 360  
 cctgagtnt gataattaca ttctactct tgac 394

<210> 12903  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12903

taacgatctt tntacaaatt taatatttta aaaaaatata tttgaattcc taattaattc 60  
 ataatcttct taattcaaaa cctaagaaat actatgggtga tactttcaaa ctcatctt 120  
 gtttatcagt ttacagggt catctatttt gtagtttttg ttaaccattg ttctctagtc 180  
 tccacaagag caccaagata ctttttttct ttntttctgt ctctcact actgcacttc 240  
 aagttttttt tccgtcacac taggaattgt gagctntatt tccccacac ttaaatttcc 300  
 caaatcccc actcactggg taaagatatt gtaagccctt tttcactctt ttggccggca 360  
 atggcacatt acttgacacc aaatggaatt tccgtagcag acattgaacg catccaacca 420

ctg

423

<210> 12904  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 12904

tcaagcttga cttacaattc ataaggga aaactctgca acaaataaa atgtaaggga 60  
acagtatttg tcttttaaag cacaaaagaa cgcaaaaag atttgttcca gaagaacctt 120  
gtcattacgt cttccagcat gatcactccc aacaactaat ggaaagtgtt ttgacagaat 180  
tgatcctcta aactgatcaa caactttcaa aacagatggt ttcaagccac tcttag 236

<210> 12905  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12905

tggatgtccc tgaaaagaaa gagatcgctt tgagagcttt acattcggct tgaagtgtca 60  
aaaagaatta tgcgtccata acacaccatg taccaaagaa ggaaaatggg tgagcaaata 120  
ggataaaacc tacagcatgt aggacattat gtaagtagaa tgaaaatta tcattacaaa 180  
ctacttgatt ttagactnta gcttacgcat tctaggatag gaattactaa tgatttttct 240  
gaccagcat tgtttaatca ttaatggctg ccaactctta tgtgtcttga cttctttccc 300  
caaatcagt tgtataaaat taacaacata atataccagg aaaccactgc caccaccaca 360  
gccacagctg tcattttctt cactagacat gactatagcc atgattgcac catcttcaga 420  
g 421

<210> 12906  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12906

agcttcttta gaagcacttc taggataaaa aaaataagag aatgaaatga gctttctatt 60

tcgtttttttt acttgtgatg gattttttaac ttattacact gactgatgat aattgataac 120  
agctgctgat gttcattgat gcttattatt cttactatgt aatatttatt aagatccaag 180  
aagcccagat acataatatg atatggttat gatacagaat tacagataga gataccgaca 240  
ttntaaaaaa ttcaagttag gacaaaacca tgatacatta ccaaaaatgc atagcaatag 300  
caacttgag aacacagacc agcaccagc gaaggagaga gaaccaaag atgagctaga 360  
accaccagca acttcagcaa tgcagat 387

<210> 12907  
<211> 465  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12907

agatctgttt acaaagttga caaattatct agcccncttc tttgtacaag tttactcact 60  
ttgtgtagcg ttntagatct gttattttcc attttatata ccaaaaagta tcatggggac 120  
tttatctctc taaattaatc aatacaactt gactgaaatt aatttagggt taatatgggt 180  
ttttgacata gaagatttta gaaaaggaaa aagaaatctt tcagaaattc ttataagtgc 240  
agtctaaaaa atgctattca tttgcatcct tagttaacct gtacgtcatt aataaataat 300  
aaataattat tntaatttaa tcagtcaacg taaagacatt ggatatgcgt tgaaactttt 360  
ccagggctaa gtaaattatt agttatatat catctaatta gttgaattaa tgtatttcta 420  
gaacatgctt cacaatctaa gccataaat atttctctta aaact 465

<210> 12908  
<211> 333  
<212> DNA  
<213> Glycine max  
<400> 12908

agcttgacag gctgccatag cagcaacaat atattctgct tcacatgtgg acaaagcaac 60  
tacactctga tacattgagc accaagagat tagtgatgct ccaaaattga aaacataccc 120  
agcagtgctt ttctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180  
ttctcttct atattcttct gactgtgagg atataaaatg ccaagatcca atgttccttt 240

cacatacctc agaatgctct gtgctgcaa gaagtgagga gcctttgggt tctccataaa 300  
cctacttatc aaccaaacac aataggcaat atc 333

<210> 12909  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12909

ntacattcaa acgcaaggat aactatactt gattgactgg tcctctcatg gtctcaagtg 60  
tgtttacaac tcaataatca tatagccttc agataaactc tgcttaacaa acaacaactg 120  
aggtttgtaa gttgtaaaag ttcattcaaa cattttattgc atctgagaac acaagggtggg 180  
tatatataga gaaaatagct ataaccatct gtaattgatt aaattggcac tgtgatcgat 240  
tattacgcga aagtgatcaa tcatatcttc caattaatcg attaaagagt tcttccccaa 300  
tgctagacta tataattgat tattttcaca taataatcga ttacattgtc aattcaattg 360  
attacagtgt ccttctccaa ttatggaaaa cattcaagaa caattgaact gggatagctc 420  
tcttaatcac ttctaggaac actctctaga ctgatgtaat ca 462

<210> 12910  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12910

agcttgctaa tcacagggca tttgcaaattg gcaatgtgga gactcatttt attgataact 60  
acaaagaaga cctctttgtt gatgctaaca attcagtgtc tgtgaaagaa gcatatgaag 120  
ctgctagact taatgcatcc ctggtggccg catgcctcat tgaaaaagag catttcatat 180  
tggttagaaa tccacctggt aaattgtccc attcttgctg tgtaatgttg agttgttttt 240  
gtaattttcc ttggtattta cataagcatg ttcagggggc agcagcttgc tccctatatg 300  
gtattcttct ccacctttca gaatccatca tcangctaag cgtagaatgg aacttgagtg 360  
ggataatgaa tatggtagtg gtagctcana gatcatgaag cttaccatca cttatc 416

<210> 12911

<211> 440  
 <212> DNA  
 <213> Glycine max

<400> 12911

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tccaagcctt tcccagcggt tcatgttgat ctgacccctc tctttgattt ctctttaacg 60
acctgctttt tgtgacgaag gctttgggtt gaatgtgttt tgcttcgact gcactgtacc 120
tgtaagtttt ttttttttgt ttgggttagaa tggactcggg gttttatgcg tttggttttt 180
tctttcgggt tggcctaact atacgttttt tttttagaaa ttaggggtcc gtgaaaaatg 240
agagaggggc tgagatcgcg gaccgattg gggacggctt ctgggtggtga aggagttgat 300
cacaagaaaa cggttgctgt gaagagttag gctgttgatt tgggtgatga gggtttgag 360
gtacagaagt caacgattga gaagaagggt gaagttgaat gcggtgtgaa acaagaatgt 420
ggctttgatt tgaatgtgag 440
```

<210> 12912  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12912

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ccctaagaga ataaagggtca ttcctgagtg gcctactcca tcaagtataa gggaaatttg 120
gggtttcaat gatttaacaa acttttacaa aagggttggt ccatattttt ctatacttgt 180
agcaccactc attgagttgg tgaggaacta tggtctctca tggaaagatg gtcaagaaag 240
gcgttttcag tccttaccct actctaacat acccaacatc actaattcaa tgtntaatt 300
cttttaacag gtgttgagaa aagaatccct gagtttcaag aacctctgga tttgaggtca 360
aatcctttnt tacgcattaa gatcaataga 390
```

<210> 12913  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12913



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ttgccagatt	gattgtgaag	gaatgcattg	accgtatccc	ggtgagagtg	tgatccttaa	120
atthttgagag	aaacgactat	catttagtac	tgattttttgc	gtgaatctct	gaagtatgga	180
ctgaatgcat	gaaattgagg	atgatgaagg	ccatgtttga	ttgtgatagc	catttaacca	240
caaatactaac	catgtgcttg	aatgatttat	cgcttacacc	tagttgagca	gaatgaatta	300
ttgattgatt	gaaccctgag	cttatatagt	gttatctctt	gctaccttga	ctcangttgt	360
aggagagcat	catccatagg	aagtgtggtt	canagcaaat	ttgtcccana	tttgcgggag	420
taattatc						428

<210> 12914  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400>	12914	
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tattgtgggg	ttaggttagg	ccctaagccc
60		
aaattctaag	caacatggct	agttaaaact
ggtaaatata	attctagttg	catagggaaa
120		
aagggtttaca	agttaagaac	aaatagggtta
atagtactta	attgcctata	gtatcacata
180		
aagacccaaa	cttaccagtc	cgagcaggtc
tgaagcttga	aatatatttc	ctgtaatgaa
240		
agtataaaaa	atgagtaagg	tgagtcggaa
agcctttaat	atatttacta	tagaaggata
300		
ttgaaagggg	gcaaacaaac	aacataaaaa
acataattaa	tagcacacca	tttagtagag
360		
ttgcggtggt	cataattctt	tatc
384		

<210> 12915  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12915

gtgaccttag	atactcaagc	ttaggggact	tgtgtactcg	tacgagaccc	actagtaatc	60
attactagtt	aaccgactac	catgacttac	acgtcatcct	tagtggacat	taaggacagt	120
taccaactta	attattgtcc	tcacttataa	gacgagaaga	ataatgggaa	aaggtaagtc	180
acattntatt	caccatatac	aaatacttta	ccatcggatt	gtcccccctcat	tggaaaaaga	240

ggtcggtaga agaagaaaaa aactatttca cgtacgatat aggaagattc tagtaagaat 300  
aataactaaa ttcaaaatta tgggtcaacc aaagtttaca aatgcctatc cacataaagt 360  
tatattttatt agaaccaaatt attntttaac acanaagcat taatgtatat taatttatca 420  
caattttgtga atttattgat aataacatta gaaattntac attatctaga taaaaacat 479

<210> 12916  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 12916

tcaagcttgt atggagaaga cacctctttg aatggacaag ccagtttctg tgtgtgtgtg 60  
tatgcggaag cttgaatcaa gaatctgtct aagtttaatg cagcatccct aggctgcatt 120  
aaatctcatt acaggagcat cactacatcc aacatatggg aagtcacata gacaatgggt 180  
gggattggag ctttatttgt agaacgcat tgtcttgaca atgaaattga tacggctgggt 240  
gttcctctca atgaggttca agatatggcg attcaacaac atggacctga tgtgtgggaa 300  
tggactgctg accctacacg tcagtatacc acaacaatg cata 344

<210> 12917  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12917

tgaaggtaaa ctagatgcct tggttaacct gtaacccat ctggccatga ataaanac 60  
tgcacctgtc gccagactct gtggtttatg ctccctctgcc gaccaccaca tagacctttt 120  
cccttctgtg caacaatctg aagtaattga acagcctgaa gcttatgctg caaacatcta 180  
caatagacct cctcaacctc agcagcaaaa tcagccacaa cagaacaatt atgacctctc 240  
cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg cgaatccttc 300  
acaacagcaa caacaacaac aacaacctta ttttcaaaat gttgctggcc caagcagacc 360  
atacgttctc ccaccaatcc aacaacaaac tgnngaggct cctccacaac cttcccttan 420  
agaacttgtg aggcanatga ctatgcanaa catg 454

<210> 12918  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12918

agcttccttc cttcacatat aatgaaaacc tcaagctttc ctctctcacc aaaagaccaa 60  
 attcaatctc aagcttccct ccaatactgc tttgaaacaa tggatcagaa gattcaaagt 120  
 atattgcatt tggatcttat gggtagaacc catacagtat gccatacaag tagagaatag 180  
 tacgaactat atatggtgtc aattgtttca tagcagtatg tgtgagaagc ttagatgtaa 240  
 tttggtcttt tgggaaaaga ggaaagctag agatnttctt tttatgtgaa agaggggaagc 300  
 tcgacatttt gttttttctg gtcgaggagg gaattatata catgagggtan ataattgaaa 360  
 attccatact taaagacttt ccaaatcgat aattattatt ttttatatat ttaca 415

<210> 12919  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12919

ttaccacaaa aaaatctatt gatatcaatt tatcaacggt tgtctctttg aagaaatagc 60  
 tnttgcaaga atttaattat taaaaaactg catatggaga aggatacagt gccctttaan 120  
 agatgatata agataataaa anaatcttta aattgcaatt tatcttttaa tatatattaa 180  
 cattattaat taagggttatt gaattcaaga atttaagtaa agttgtaaaa gttttgtaaa 240  
 tttgatttgt aagagttttac tttgaaaaag atgatggaat tta 283

<210> 12920  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12920

agcttcnctc tttcacattt attgaaaacc tcaagctttc ctctgtcacc aaaagaccac 60  
 gttcaatctc aagcttccct gcaatactgc tgtgatacaa tggagcagaa gagtcaaagt 120

gtattgcatt tggatcttat gggtagaacc catgcagcat gccctacacg gagagaacag 180  
gtggaactat atttggtgtc aattgtttca taacagtatg tgtgag 226

<210> 12921  
<211> 617  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12921

acacacccgc cncgcgtcnct catacactag tcgtatgctc tctgtcgcct anatactata 60  
tcaaactctca nccaccgcac gaccgttgaa cccctgatga acccatctga aatccgacag 120  
ccaataagca cacgatcgga aatgaccact tgactcggaa ttcgcatgaa ccctcttata 180  
ctgcacagac attttacntt accacactcc atagatcaca tgcgatattc gagtatatcc 240  
aacgccagtg ctctcatttg acagaagcta gtcctatagc aaggaactat aatcaagttg 300  
atcaaactcg ccttatcgga aaatcgttac tacggtcact tntacaaaga acgaaatccg 360  
cgataatata acgacgatct tctaaagatg gactcttagt catttatata tagcattaaa 420  
cattaattaa ctgaggcggt atctgaagct cgagattatc aagtcaagga tgtcagaaca 480  
tcttcgcaaa tacttgttat agcaagagtc tactctcgac acaatgatga tgggcaatat 540  
acacaatata tgtagagggtg gtggaggccg atccgtgtat tcggaatcaa catcaaactt 600  
caaaatacag tctgccn 617

<210> 12922  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 12922

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gcactggtaa tcgataacca taacattgta atcgattaca gctctttgaa attaattgga 120  
acgttgtaaa ttcaacttgc aaactttttc taatccatta tagtactggt aatccattac 180  
aacaatcggg taattgatta 200

<210> 12923

<211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12923

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atgtgacana acgtggaaga gccagtcttc ctacttttgt ntgttgatca cagagtggta 60
cctggagata tgtcgcgagg gtcangagaa ccttgggacg tcatgtaggg tgctgttgcc 120
caaaaccaag cttggataat cccgacccaa cccgagctag tcagtctgtg agaacttggtg 180
acgtacctaa gcaggcgagc tcctgtcagt caaccaataa aagaacaaag tccactaagc 240
aaggaggctt gtgtggcggc tgaccagcta tatatcttgg gtgttatctg aaaattaccc 300
tctggtaatc gattaccatt catgggtaat cgattacagg gtttatatat ggagacagga 360
tgттаagtag cttctggaat cgattacat ttgtgtgtaa tc 402
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<210> 12924  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 12924

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aatgtgaatg tatgtataca tgattttgat gatgtcaaag aagaatctaa caaggctgct 120
tcaaatagata agcatttgct tcaagaatta ttcaagattg cttcaacaaa caaagccttg 180
cctttaaaca aagtgtcttc aagacatgca aggctctggg aatcgattac catgaagtgt 240
tatcgattac cagaagacag ggttgagaaa tagctattga caaatgtttt gaacttgaat 300
cttcaacatg taatcgatta ccatatgttt gtaatcgatt accaccaacg aaactttgga 360
aattcaaatt cacaagtcac aacccttcaa attattactg tgtaattgat tacacaaaca 420
ttgt 424
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<210> 12925  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12925

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 ggggtgttgaa gagacggcat gggcatctcc ttcttctctt tntgcccctg ttgcccgcg 120  
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttctctctt ttaatccaac 180  
 ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240  
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
 catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctntataggt 360  
 atcacctctt ntcttaaaca tattctgcag ttgagtac 398

<210> 12926  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12926

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 ttttctcttc tcatttaaac tcgtacatca taacttctct taatcaacgt gtgtgttttt 120  
 ctaccattaa gtgacttatt atacgattaa tatatcactt cagaatggca tatacacgc 180  
 atatcttggtg attgtacaga ccctctatgt acttgtctat ctaaggatgat cgatatacat 240  
 cttggctcat atccctgtgg ctttgtctcg atcatctgcc aggacctcta cattatttta 300  
 tgcagctact tatgcatcca ctctctatgt ctagaatagg tagctatggn tagacctaac 360  
 acacctccac ttttagtttc aaggagcatg gagctatatt gtgcacatcc atttcattgt 420  
 cggn 424

<210> 12927  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 12927

tgagctggcc gctgagcgag gcaacgcgct aagcctgtct tgtgcgctaa tcgagatgtc 60  
 ccattcttca actctttctt caaagcttta tcttcaagtt attgtatcaa tcttctcca 120  
 gagcactagt atatctcatt cttttgaata ctactggtca agaattaaaa tgatattaac 180  
 atcctcatta ttccattaaa gacaatagta aagtacagga cttgtaatca ttcttagtca 240

gatatgacta tcaattaaat gccaatatca cagctatcat acccattaga gcttgagtca 300  
tattaaatga cgatgaatct ctactctta gcatcaagtc cttctcttct cctgtctagg 360  
acatgaacat gagctatac 379

<210> 12928  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12928

ttcttcnct tcatcaaagt aaatcaacat tcatacagca caaattacca cagccaagat 60  
aacagggcaa aggcagaaaa ctctgccaa aacaccaacc aaaatcacag cttttctcac 120  
ttaaagaccc cagtaacaat tccttcgatc caattcgta accgttggat cgactccaaa 180  
atthttactgg aagtctatag tacataagcc tacatthttga ccgttgggat ctactancaa 240  
acatccagaa ctcatctctgc actactcttt ccacaggcaa ccacacacag agcattthtct 300  
gcacaaagcc caaatcctgc tgcacctcat ttgacagcaa aattctgcat aagtgcagat 360  
ttcgaaaatc acccttcctc tcatccaatc ttgcccacaaat caaatccta 409

<210> 12929  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12929

tcattaagaa gctthttctca gaagcttcat tangagactt ctagcacact ctagacatct 60  
ttcganagat cccaacggtg agatcatgga ccagtgtctt gtgaagttgc agacacaaat 120  
tcgagaagat ccaacggtta atgaaggctt gaaagcgggt gtaccgacga agcttcatgt 180  
agctthtttct agaagcttca ttaagaggct gtctccagaa gcttctctgt ggcttctttg 240  
agaaagcttc ttaagaggct tctttgagaa gctagatcct tatctatnca caccctcta 300  
ttaactaaat taactthtctt aaaataatta ccgatggaat aacgcacaga tattcaacct 360  
caaacataat ac 372

<210> 12930  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12930

ttcttcatgt tagagtcaat gatcaaattg agaggaanaa taatagctat gctaaacaag 60  
 ccaacaaagg gagaaagaag gttgtcttcg aaccgaggaga ttgggttttg gtgcacatga 120  
 taaaagaaag gtttccggaa caaaggaaat catagcttca accaagggga gatggaccat 180  
 ttcaagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
 atgttagttc caccttcaat gtctctgatt tatctctctt tgatgcagat ggagaatcca 300  
 gattgaggac anaccttct caagaggag agaatgatga ngacatga 348

<210> 12931  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12931

tactcagctt gaaaaatcaa tggctctaact ntcacacgga tctccaattc atacgcatca 60  
 catattgaga cgcttgaaat tgaacagcgg aagctcttga gaaatagtaa tggtcataac 120  
 ttctaactcg gatgtccgat tcangcgact cacatataga gacgcacgag aatttaatgg 180  
 tcataactgt tcacactaaa gtcctattca ggcttataat atacgagat actcgaaatt 240  
 aaacatctga agctcttacg aaattcaatc ggcataattt 280

<210> 12932  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12932

agcttataag atcaaaattg tcttaatcat ttccaaatat gcatgtgaat tatgacgcat 60  
 ncacaagaat caagccaagg ctattgtgca agcaatcaat ggggccaaac acaccaaag 120  
 attataatga tggatggctc aaattctcac aaagggtaaa tcatcacttt caaattgagc 180



tttcataact atcatgacat gtagagaaga atcaaggatt tcaagtcaca caatgtcaag 240  
aactcttatt ttcaaaacat ttacgcattt cttgaacata tcctataatt caaagaataa 300  
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactgaa aatccgacga 360  
aactaacaac attaacaaat taacacaact aacagattaa c 401

<210> 12933  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12933

aatgctactc ttaagacaaa natggcgtac aacctccttc aataaacaca aacatcaatg 60  
ttaatttaga gcaaacttat gcacatattt ccttacgaac attcactcgc acaagatatt 120  
cttctaacta agaaaaatgc acccatgcac aatcaaagca ccttcgttac ctagattatt 180  
tgtatgtact tccaaggtgg actacctaca tcacatgcat tttcttggct aaatntacat 240  
acatgcatac tcaaagcadc ttggctacca aaattgcaca cgtcacattc tggta 295

<210> 12934  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 12934

ttcttggaat ggatgcttca atggaggaaa aaaaagagag agagaaagag agagggggga 60  
agcatgaaat tgaaggaaga aaaagggaga gaagttgaat tgtgagttgt gtctcacaag 120  
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaagtag 180  
cttccttgag aagctttctt gagaaaactt ccttgagaaa cttctttgag aaaacttcct 240  
tgagaagcta gagcttatct acacacaccc ctctcataac taagctcacc tccttgagaa 300  
gcttccttga gaaaattcct aaagaagcta gagcttatct acacacacct ctctaatagc 360  
taagctcacc ttcttgagat ga 382

<210> 12935  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12935

cttcgattca ttctatgtac ccgtagtggt ccacattgtg tttcgtgcat ttatattctc 60  
gttntgggta ctatttatac cccctcttg acgtgcttaa gccattttac ttaagtcatt 120  
tctcgcttaa cttaaaaata agataaattt ccaccgaatg tttgaattgt attatccatt 180  
aacttcgggtt aaaatcaatt tcgaccgttc ggtcatgccg taaccacgtt ggaaatcaaa 240  
aagagggtaa aaataatata ataataaaaa aaatatcttt ttagtgaaat ataagcggaa 300  
atcattcnga cgttttctct ttgggagttc tcattcttaa tcgaattaat taataactaa 360  
a 361

<210> 12936  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12936

tagcttcttg tattgaacat tgaaagaaat tccattccta aaggacactg ttctatctac 60  
taaagattc ttgcccttgc ttcttaccgc aagcataagt tatgcttggt ttttccttgg 120  
cctttttcta atttaagagt tattttatgga cttttaaaaa agaagtagat ccgtgtggtc 180  
cttgacactt ttggccttct tgggggggagt agccaaaaaa aggtgccacc cgatgctatt 240  
gaactaacag gccttattct acatccaaaa ttgatacatn tttgtaccta ctcatccttt 300  
tctttctcat catcattttc cacatactc aaccaatcat gaagggtttt ttttaagttt 360  
tctcttctca caggettctt tgatgaagtt ccctactct 399

<210> 12937  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12937

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atgttaaggt acattatgaa tctgcgaata ttattatttc ataaccgaaa gccagtnctt 120

gtgcaacggt aaagttgtgt cttggtgaat tggttgtcat gggttcgaat cgggagacag 180  
cctctttgca tatgcaagga tnaagctgcg tacaatatcc cttctccata tctttgccta 240  
acgaagagcc tcttggcaat ggggtacgac agntttttat tattccataa caatattgca 300  
gccacttaat ttgatcacat atttatcttt atgagaacaa ctaattaagt gataactctt 360  
aacattgtag ttattaatta tg 382

<210> 12938  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12938

agctntgatc ttttcaaagg agatgaagaa nacttctctg aggggaagtt caatgttgct 60  
gatagtgttg tttttcagat tacacagaac aagttggtac ttagaattat tccccagcaa 120  
caggacatca ttgtttgcag acatgcacaa nggatgagga aagtaactgc gacagaattc 180  
aaaatgcttg taactaactt taatcaatag agtccaagac ttttgaactc caaacttctt 240  
catttgccat ataacaagat gtgttccgtc ttcattgtga gaaaaacaga agcaaccctt 300  
caaaacccta acttctggca accaaaccga 330

<210> 12939  
<211> 533  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12939

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tctctctcac cncctcagc actaaccgtt ganaccatta atgaccctc cntattgagg 120  
cccttctatt agtgacctat agatactcaa gcttatangg ttgagctcgg ctttgagtga 180  
atatgccaag tatgagtttt gctcattacc tggcgtaagc ctttttctct tattacaggc 240  
tcggctcggc ttacataaaa gtctgacttg gcctaagagc ttatttaaca agtttgctta 300  
aagacgtctt tgaccaatta attggttaat acctagtgga atactaacta caaaaaactt 360  
aataaatttt ggataagtaa tgtacacatc caaaaataat ttgttatata aaatcatata 420

tgaataaagg ttgttaaaca caaacgatta tcaaagaata tgagaaataa tataacttaaa 480  
aatatatgga ttagagatga ttataactaat atagccaata aaaatattaa atn 533

<210> 12940  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12940

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aagatagact ttgcatcccc ttctctcaac catttgagcc tagattgctg ccacaataaa 120  
ctacacttca tacctagagg ttagggattt agggggttggg ggtggtggat gttttggttc 180  
aaggtgtggt ggtgaattgg aggatttgaa tttggttggg attgagttga ttggttatgt 240  
tctaggttct cttttatcta cggngggatg ctggtgttgg tgattntgag agattggttt 300  
tttaatctga tatgatttcc cccctcaat 330

<210> 12941  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12941

gaatcacata ttctaacaca tagagagtgt gtttacaata aggtatagtt agataacctt 60  
ggtaagaaaa ggattgactc tataagtaca atgtttctct cttattttct tatgctttgg 120  
acttaagtat tggtagtggt ctatgttaat tngttagttt tcagaaaaga cttgatgccc 180  
cttttatgct tacagtatga gcgaatcaat gtgggggtctt gattaatcag aatatgactg 240  
ttgacaatct ttgattcttt gattcctact aatgatagat gatgcatgtc tggattgatc 300  
cagaatcaat actttgtaaa tttgtccttc atatatcaat tc 342

<210> 12942  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12942

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 atatatcgag accctcgata ttgaacaacg gaagccttcg agaaattcga atgggtataa 120  
 gtttgcacac ggatgttcga ttcggggaca taatatatcg agacgctcaa aattgaacaa 180  
 cggaagctct cgagaaattc gaatgggtcat aacatttcac tcggatgttc gattcaggta 240  
 cataacttat ctagacgctc gaaattgaac aacggaagct ctcgacaaat tttaatggtc 300  
 ataaattttc acacggatg 319

<210> 12943  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12943

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 aatntctcga gaggggttcg tgttcaattt cgagcatcta gatgagttat gtccctgagt 120  
 cgaaaatccg tgtgaaaagt tatgaccatt cgtaattctc gagagctttc gcagttcaat 180  
 ttcgagcgtc tcgatatatt atgtccccga atcggacatc tgtgtgaaaa cttatgacca 240  
 ttcaatatte tcgacagctt ctgttggtca atntcgagcg tctcgatata ttgtgtctcc 300  
 gaatcggaca tccgtgtgaa aacttatgac cactaaaatt tgtcgagagc ttgcgttggt 360  
 caatttcgag catctccata tataat 386

<210> 12944  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 12944

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 caaaaagtta ttgtcgtttg attttgctcg gagcttctgt tctgtatttc gagcgtctcg 120  
 atatattacg ggattcattc ggacattcga gtaaaaagtt attgtcattt gattctgctc 180  
 agagcttctg ttctgaattt cgagcgtcta gatatactac gggacacaat cagaaatcca 240  
 agtaaaaagt tattgtcggt agattttgct tagagcttct attctgaata tcgaacttct 300

cgatatacaa cgggatacaa tcggacagcc gagtaaaagt tattgtcaat ttatTTTTgct 360  
 caaagcttct gttctgaata tcgagcgtct cgatatacta cgagacacaa tcggaca 417

<210> 12945  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12945

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 tctgagcaaa atctaacgac aataactttn tactcggatg tccgattgtg tcctgtagta 120  
 tatcaagact ctcgaaattc agaactgaag ctctgagcaa aatcaaataa caaaaaaatt 180  
 ttactcggat gttcgaatga atcccgtgat atatggagac gctctgattt gaaaactgaa 240  
 gctctgagca atatcaaacg acaataactn tntactcgga tgtccgattg tgtcccatag 300  
 tatatcgaga ctctcgaaat tcagaacaga agctctgagc aaaatc 346

<210> 12946  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 12946

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 ctggaggaat cttctggagg gcccaagtgg gcttggttgc tatttacacc ccctttttac 120  
 taaatgcacc ccccttctat tattttgtaa ttcttttccg taacgttacg aaactttacg 180  
 aatttcataa cgatacttat tttccttccg caaggttacg aatccttacg gattatgtat 240  
 ttactctttt ttagctttcg aagaagttac ggaaactcac ggattgcgca aaaacacatc 300  
 ttttcggttt ccgccacatt acagaatttc acggatcgtg caagcctgct tccttttaat 360  
 tactgagacg tctcgggact tcttttattg catgtcatca agtaataatc cccg 414

<210> 12947  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12947

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ctanggagca aaacaatgtg tgtctcctag agagggcatc agctaccaca attgtttttc 180  
cctttntgta tttgataaca tatggaaatt gctctangta ctctacccat tntgcatgcc 240  
ttttgtttaa cttgctttgc cctctaata gaactaagtga ttgatgatca ctatgaatga 300  
caaattcctt ggaaacaagg taatgttccc aagttcggag tgctcttatt aaggcataaa 360  
gctctttatc at 372

<210> 12948

<211> 413

<212> DNA

<213> Glycine max

<400> 12948

atcttcaatt tctcctagac actcatcata ccgaggggtt gtctcacata ctttccaaat 60  
tcttcccact tcatccacct ttcctagggt tgcataagg ggaagcacia ttccggcatat 120  
ccaccgattc tgtttataag tttccccttc catctccttt aataaagttt cagccttatc 180  
ttgaagccca taagagatgt aaagcctaata caaaacaacc tgcgtagtga tgtctgggtc 240  
aatgcctcga gccttcatcc tatcaacaat ttgatccatt ccatcaataa cttttggact 300  
ggccttctgt gtctattaag atcgaataag tatgagaaga acggttgata ttctcatttt 360  
ccatatcaat aacacatcag ctatttcctt cctgtcattc cttctatata gaa 413

<210> 12949

<211> 546

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12949

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anangcgaca ctatgnnaaa ctcaagctat acanagagg atganagann ttatantatg 180  
aattatttgg gatataattg agcattttga cataatgctg agactgatgt gacagcacct 240

cttctggcac atttactata ttatttggat aatagttaaa cataactcaac aagtttttta 300  
catgagaagc ttgttatgat tatgagggag attaacgtga cacatattgg taaaagtcaa 360  
tattatcttc tgtagagcta ggattgagct catgcaaattg tgaatctata acactaaatt 420  
aagaatcatg cttaaaattg ttgatattag aaagcattga aggggtagca tgacttctaa 480  
gattgtccct tgcacatata gtgcatagca tatatgcaca taaatatgat gctaattgat 540  
attttg 546

<210> 12950  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12950

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agctttgggtt gggaatttct gttgatcctt gatgcaaata ttctttacta tctatttaat 120  
gttgttttga tgtgttcact gcttctatct gcacttaatt cttgcatgct tttgggtctga 180  
tcatccattt ggggtgtaaag tttggattct tagcattggg aaatgttttg aatccttcaa 240  
actggataga gcagggctag ataactgtat tgtctggaca cggagtgtan ggactctagc 300  
ttttaatttg gtgtgacctt aatgttagat gagttgagtt ccatcaagtt atggaaagaa 360  
aaataagaga gacaagacaa aggacaacaa gagtggaaga tataagtcaa gatg 414

<210> 12951  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12951

tagcacccca cctgacgtcc ncaatgtctc ctgacctccg cgacatatct ncaggtagca 60  
ctctgtgggtc aacaataaaa gcaggaagtt tcaccttca acacttctc atctcaagct 120  
tgtaggatta tggngtaccc atcacatgtg gtactangtg gcggtcgggc gatgggtgcac 180  
aacaagtttt tcacatccac aaagcgcgca taaaccaccc atcccctgtt gcccacctcc 240  
atctgagctc acgtactccc acgtagccca tctcctcggt tctctcaaca ccgggtcccc 300



atcaatcctc tcaagcttnc acaacatcca agcaaaacaa cattcanaca gcacaatcta 360  
tcacagccaa gaaaaca 377

<210> 12952  
<211> 351  
<212> DNA  
<213> Glycine max  
  
<400> 12952

tatcttaact ctattcgcat tcttatctct cttgctgcta catatcggtta acctttattt 60  
caattggatg tgaagaatgc tttcttgctt ggtgacttac attaagcggg gtatatagag 120  
caatcacctg tgtttgttgc ttatggggag ttaggcaacg tgtgccgctt aaagaaagtg 180  
ttaatggctt gatgcaatca cctagatctt ggtttgaga ttaaggggtg tggccttgct 240  
tttgactgaa gctgagtcaa agagatcata ctgtaattta taacaatact aaccttggca 300  
gcatcttact tgtggatatg ttatgatatt gtgaaacaag aagtgatata a 351

<210> 12953  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12953

tactaagctt agcacatggg naaagtatta gtaanatcaa ctccataagt ntgagcttac 60  
cccttggcaa tgatgcgagc ctttaaataga gccacagacc cattagaatc cattttgata 120  
ctataaacc accctgcgacc aatatccctc ttccttgcan ggagagaaat caaatcccat 180  
gtttcaaatt ttctcaagag ctatcatttc ctcttcatt gcttgtctct agccaccatg 240  
actaagggca tctaanagag atttatggat agaaacanaa tctagatagc aacaaaggac 300  
tttgaggtgg atgacaaatg agcaatagac acatgtgagg anataggata agtatgtgta 360  
caggtgtgnt taccttta 378

<210> 12954  
<211> 400  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        12954

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acatgccaca cctcagatct gaatatggac agagctaagt tggctctatgg cttggtaacc  120
aacatggaca tgaatattgg agcccttata tcaggtcaga tttcttctat tgctcagagt  180
aactcatcta agctctgatt tctagccttg aatacttccc tatgtagagc tagaggagtt  240
acctctgaca gtctgaccta tgagagcctg agcctggcta ttaactnggc ctacattaag  300
aacaactatt ggaatgtgga tgatcttata gttaacttca gaggggcaag gataccaaga  360
gtccgaccag ctgatgtccc ttcttttcac tctaccagct                          400

```

<210>        12955  
 <211>        364  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        12955

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gaacaggaac attagttatc tgttatttca tagcaataaa agccttctct tgttgatccc   60
tccattcaaa aacaacattt ttcttaacaa tttcatttag atgtgcagcc aangtgctaa  120
aatctctaac aaacctccta tagaaacttg ctaagtcatg aaagctcctt acctcactta  180
tattttatgg ggttggccaa tcatgaatgg ctntcacctt ctctagatca acctgcattc  240
cttgcgagct aacaataaat ccaagagaaa tgacatggtt catacaaaac acacatctat  300
gcacgttaac atacaatttc tcacacctaa gtggccttcaa gatacacctc aaatgcacaa  360
catg                                                                    364

```

<210>        12956  
 <211>        359  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        12956

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ttcttgtatt tttaacaaaa aagggtacgg aaagtaaacy aaatgaaagt gaaagtacac   60
aaaacaagta gggaccacta aggggtgcatg gaatgaattg aaagattcga ttttgggaaac  120
ttaccgattg aagaccgaag aacgacgaag aacgacgaag aacgaacgaa gaacgggtgaa  180

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gaacaatgaa gaaccatcac gaaatcactt acagaaacgt cttggaaaca ttacggaaat 240  
gcctcggcctt ggattttctt cacgggaaac aattttctct ctaattntga gtgatttctc 300  
aataccagaa gggctgaacc ttttccttct tccctccttc ccctatntat aggagaaaa 359

<210> 12957  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 12957

gctggccttg aatcagaaat ctgaccacca tacagacctt tgcccttcca tgcagcaacc 60  
tggagcaatt gagcagcctg aagcttatgc tgcaaatatt tacaatagac ctctcaacc 120  
tcagcagcaa aatcaaccac agcagagcaa ttatgacctc tccagcaaca gatacaacc 180  
tggatggagg aatcacccta acctcagatg gtccagccct cagcaacaac aacagcagtc 240  
tgctccttcc tttccaaatg ctgctggccc aaacagacca tacat 285

<210> 12958  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12958

tagcttcaca ttttgaagtt ctaacaggga tgtgatctga taataagtta tgggaacaca 60  
tagtttcagg gtatcccaaa cgaacgatag gcctaatcga ctgatgccac aagtaaatac 120  
ttgcgtccat ttttgtctgt ttctatggat caatgcatgg tgaatgtagc tctggcctac 180  
acttgaaatc actccactat tgtaaagtc cccatctctt agtaccatcg cccaatgac 240  
tccttcgtga gaatatcctg aagaaaacag aaagatggat aaattagcac aacacagttc 300  
aagtcctttg taacttgact cacagacaac aacttatgag atanggaggg aacaagtagt 360  
gtattcgaaa gcacaaggga tggtgataac atcacaat 398

<210> 12959  
<211> 210  
<212> DNA  
<213> Glycine max

<400> 12959

ctactcctct gcaaactctgg atgcgtctaa gtctctact agactctcaa atccctgtat 60  
acattgctag acctatctac tagaagggtc atatactagg ccataatata gagaacctat 120  
tctcatatth acactataaa gtggatccaa ccttgaccca tgggctcata gatctaccct 180  
aatgttcatg agaacccttg agccttcttt 210

<210> 12960

<211> 327

<212> DNA

<213> Glycine max

<400> 12960

tttgcattgt aacattgtcc atctgtgttg attggtggaa gatgatgaat atactttttt 60  
ttgcgtcaca cacacgtgcc aaatatgact accttgattg atgtccttac ttcaccagtt 120  
tactgtgaca ttcacttacc atatgagtga ttgaatcgta aatcattatt gctatgattc 180  
tagagattgt tattataaaa tactcaattc atcatatcgt gatctctgat tcgatgacat 240  
tgctaaattc tcttacatta tcgttatata cctttgcctc tctgacttta cctcttaatg 300  
cacaaatgga cagaatatat caatata 327

<210> 12961

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12961

aattactatt agataccgct aatatataag aatttctgca ttcangaacc taatttcggt 60  
tgattcttta atattatata aggaacaaga atcctccttc ttttcaccac atattgggct 120  
agtttatgag ctatccctag atggctacaa tgtcttaata ctcaataccc aaaggagaaa 180  
accaggaatt ccttaataga ttgtagaagc aagccttttc tatagcgcgc acacaca 237

<210> 12962

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12962

agcttttagc tgcttcaatt gttcccacaa ttctctcttc ccagcaatat cacatggggc 60  
atagacattt acaatgtaca gttcatatt ttcttaatc catctcccta caaacattag 120  
gaaattcgtg cctttcacc cctatctac ctcaaaggat agattattcc acatgcatag 180  
aagacctcca gcagtgtgaa ttgaaggagc actgtoccaa gacacattag catctcccca 240  
tatattctga caagcaagct tagtgataat ttctttcttt gtttctgtgta aacaaactaa 300  
gtccacctta tgctttaagt tgagctttcg aatagcagcc cacttcaccc nctaccaag 360  
cctctgcagt tatatgaaag aattatcatt aataccttta tcatctcct tctctgcttc 420  
cat 423

<210> 12963

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12963

gattggagag gttaatgaaa caacgagatg atgcgctcca tgagaggggtg gatcanatgg 60  
aanatagaaa tcataatgaa gaagaaagga ggagaagagg gaatgatggt gttcctagac 120  
caaaccgaat tgatggtatt aaactcaaca ttcttctctt taaaggaaag aatgatccgg 180  
aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac aactatg 237

<210> 12964

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12964

agcttgcgga ctataccttc gaccaaacac ggccgtgttt ctgtctcggc ccggatttaa 60  
agcggggttg agtaccggct ccgcttccct aaccgtactg gaggcgggtg ccgtggcttt 120  
atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180  
taaggccgat agatcggcct tcactgttct ctgcacgccc tcttcattat ccatttttct 240  
ggatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaat tcctaaagaa 300

ataaacaatg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactn 360  
 ggatccaccc caaggttttt agataacgtg atgagtocag aactttctcat tntataagta 420  
 gaaca 425

<210> 12965  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12965

tcgctttaca gatagcanan aggtttatac ggataaccac tcgtgtatatt cgcggcgact 60  
 gtgtgactca naagtcagta tgacagatct tgtgagcacg gaagatgacg taaatctccg 120  
 cgtctcaacg ggcttgtcgg ccgcgattga cgaatggcgc angagacgac gttagtctct 180  
 gcgtgctatc aggtttttcg tcttacagat agcaaaaagg tttatacgga taaccactcg 240  
 ggtatctccg cccgtcagcg tgactcaaaa gtcagtatga cagagcttgt tagcgcgga 300  
 gatgacgtat atctccgcgt gtcaacgggc tt 332

<210> 12966  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12966

agcttagcac attggttcgt taagcgacat gccttgagaa accaaacgtc tctgagttcg 60  
 cttaaggcga catttcgcta agcgagagag tcgaatatag cttagtgaag tgtaacatca 120  
 atacactcac acgtgcccac agcatttcac ataaacattc ctttttatct ctcttattca 180  
 aaatctctca atcttacatc tgcacgcccac agcattttct taccgcatta tctcagtcaa 240  
 accanagctt caacgataca agtaagttcc ctactacgct ttttctgcta tttttctgaa 300  
 cnttaggtta gacaacctta aatctagctc taagaattat aggatattaa tattttttaga 360  
 agtagttaga gtttaggact ctgtgtaggt tgtcttgtgt aaaatatgtt gagaac 416

<210> 12967  
 <211> 372  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12967

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ttgcatacat gtctgtgatg gcagatccca cattaactat attctccaat ggtttcttta 120  
gaatatcaca atgcaactcc ttcctaatt tcagagcagc caaagcagca caagctggca 180  
aaacactagc catgggttagg gaattaggca ccattccctc ttgaattaac cacctaaaag 240  
tggttatagc atcgatattc agcccatgaa gcacataacc tgagatcata gctgtgcana 300  
ctgcaacatc aaccaaagta ttctgctgaa aatcttgcgt gccatctcca catctcctcc 360  
cttgaagtat at 372

<210> 12968

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12968

agctttggga gtttgtcttg ctttgatttt tttttcttta tcattagggtt cttgtttttg 60  
ttctgggttt gaactcactt tgcaatgcga cggtgctagt taaaaaaaaat gtaaactctgt 120  
tgaagagcta attgaaaatc aaaattgaaa aacaaataaa aatatttatt atattaaaaa 180  
aacataaatc atttaataaa aaaaacctat atttatcgtc cttttcgaaa gagtttacgt 240  
agggatagtt ggacagtcta aataagttaa taataataaa tgatagaata gattcaagtt 300  
gtgaccatga ccgtgagaaa tgtcaagttt gactgctcta gcatttaata aaagtaagat 360  
gccttanaat ttngnctgaa tattcaacac anaccaataa tag 403

<210> 12969

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12969

gccgagttga gaacaactta atgtgttcca ttagcttctc aggacgatat cttgcataca 60  
gaactcccaa ctcatganag ataccatata gtgcacgctc caatcctaac ccactctcca 120

ttagagatat gagttcattg aagcatcctc tgttctgata gtactcgcta acctcctcca 180  
 natcatccac cttcaatata aaacagatag taagtattca gacaagggtca aaagggttaga 240  
 caaagcaatc aaaagttntt ctggcacttg gtttttagtat tttgctacta gctacatcct 300  
 ttaacttgca tttaaaggat ntccaacatg ggaagaattg tgtagtaatt ttggagtgag 360  
 gagggggcaa tcattcctgc aagtacaaaa tccaca 396

<210> 12970  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12970

agcttgaaat gtgtgcattc tattgaggga ggctctactg gcacaagatt ctcgagattt 60  
 tctttatcaa caaatccat aacagagagt ttctcctgaa atataaatta actattgtag 120  
 aatataatta aaaaacaaca gattaataac tatgctatat attatgaagt ttttgtcaca 180  
 caaattatgt gcaaactctag tcggactaat ataattgaaa ggaaggaatc atcagtgacc 240  
 aaatagcaca agatgtggat agtgaagaaa atgatcgaag gagaagcatt cttgcacaat 300  
 atgtgaaatg tgtttctagc acaagaacat taatccagaa ttacgataat ccaattgaaa 360  
 ccaaacaaga tagcattagc canattatga aagattcttg ttaagcacat acacaggtga 420

<210> 12971  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12971

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 tcacttttagt aatgtgttat ttcaattctg tggccttcca tcatgtgata tacaggacag 120  
 agatatcatg cgggttcttg tggagtgttg cttgcaagag aaagctttta acaagtatta 180  
 taccgtgttg gtttccaagt tatgcgagca tgacaaaaat cataagttta ctctacaggt 240  
 attgattttc tctccctgtt gtaggattta gatgagaact aaatngtggg attgtgtact 300  
 atttgectca tgagtcanaa cagttacatt ttttaactac tcacagagag ggaaaatatg 360



actagaggaa cacttattat gaaatatatg agtgcacat

400

<210> 12972  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 12972

ttcttctaaa tgcacttgt caatctttat gcccctgtaa tgcatttcaa tcccctttcc 60  
ctctcacgta cctttcaagg gtcaaagcta cccctcgatg ttctacgcat gtgcgtgctg 120  
gaataaataa tgatgttggc taaaatttat tttggcttaa gtctttcaac tttcatcagt 180  
taattcactg atcttggttg ttatactttt aaaacaatga ttttagttct tgcattgtatc 240  
tttttaatat atgaattaga tttatgtgcc ctgtcaatct aaaagacata tttgagtgc 300  
ttcccgttta ccttccttca aggatcaaaa actataatgt ttcttgtaac aacagcacc 360  
cttgtgcata tttatatatt atatcattgc tgattaaaaa t 401

<210> 12973  
<211> 151  
<212> DNA  
<213> Glycine max

<400> 12973

ttactcgcac gtgcgtcacc tggaaatatc taagagaaga aagctctata agattattta 60  
tgtttgatta ttaatatgtg tgcagatttc aaacatacat attactggtg atgacatact 120  
tattggtgaa tatatcaatg tatattggtc t 151

<210> 12974  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 12974

agcttgttct tagcttcctg aacctgaagc attgcaacaa accaatctt aacatcaatc 60  
tacctcaaag actaaaatga agtgacaact tgttgaaaat aacaataaaa tatatgaaga 120  
tgtcaatgta atagtaatat gcaccatcca tatccctcaa ccctttatag caaaactaga 180  
gtgttattac acacggaaac aactcgagtg aacaagaaac atttgatggt aaattattgg 240

tttattaaca atcagcaata gtggttattt ttctctactg gaatttgatc aaagcttcct 300  
 ccttgaatgg aacacaggtg acatggttga catctgttca tttcctactc gattttgtag 360  
 tatgcctatg ctttttgggc atgttttaag aacgagaacc agtctactta tg 412

<210> 12975  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12975

ntcatgttta tcacacattc aatcttacta tagcaganna ctctaaatat aaattctatt 60  
 aaaaggtagc aacagatctt agaccctata agcctatgag ttggacagct gtatntgaca 120  
 tatacggctc ttctgggccc ccctagcagt cagagtcatc agaatttcta ttgtactggt 180  
 catacttcct agactcctcc acctccactg tggactaaat gtaatgtgga cagatctatc 240  
 attngaaata ttatgatggc tgcttgtgct ggtgtgtttt gggatgagtt tgggaattgg 300  
 a 301

<210> 12976  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12976

tgcttatgct cacacttctt tacgaacgtt cacttgcaca agacattctt ataactaaga 60  
 aaaatgcacc catatacaat caatgcacct tcgttaccta gattattcac gtgtacttcc 120  
 aagggtgatt tgttacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180  
 ctctaagcac tttggctatc aaaaattgca tacgtgcaca tcttgggtatt tctaatacct 240  
 atacatacac aaacttcatg atgaatcttg actatctaca caataagggtg ctacatttca 300  
 tgcttttttc aagggttntt actacctaaa gccgcatgca aattcaagta tattctcttt 360  
 tgcttactaa aattgtattc acattaaaag gtatttttgt aatgtatttt c 411

<210> 12977  
 <211> 371

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12977

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cacatanatt tccattcttc ccctttgttt ttgagtttat gcttcatttg aaatttagct 120  
aattacttat gtgagttctt gatttatcc ctatatctct ccccttttg catcaacaaa 180  
aagccaaagt gtgtaacaag gtattgacac acatatacta ttaatcattc acaaggcata 240  
cattgaagaa tataaaccaa tcatgaagca tgatacatga atagatcaaa tatataacaa 300  
ccacatagtc atataatata atgcataatt gttcattcaa accatgcata taaagaaata 360  
ctatattatc c 371

<210> 12978  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 12978

ttcttctaga ttgagatcaa cttgatgttc tatgcttctt gaaggtggca gtccatgagg 60  
aatctccttg ggaaagacat ctttaaattc ctgcaataag ggttgaacac taggagaaac 120  
ataaatagtt aactgattag aattatcact ctctctctct tgtgtatcac tcttttcttc 180  
gggtgtatca ctcttctttt tcatattcct ttgtggtgcc tcaactatctt ctttctcttg 240  
gtctctcttt tctctcattc tgatttggtc atcacacact tttctatgtg atagaggctt 300  
aagagtaaac gacgaagatt tggctattcg tctgtaaggc tcttctttgt tacgggttaa 360  
caaacgttgc atttgtgtag tcca 384

<210> 12979  
<211> 181  
<212> DNA  
<213> Glycine max

<400> 12979

atggagaata gagatcatat tgaagaacaa aggacgagaa tagggaatga tgggtgttct 60  
agacaaaacc gaattgatgg tattatactc aacattcctc catttaaagg aaagaatgat 120

ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg ctacaactat 180  
g 181

<210> 12980  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 12980

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aaacaaacaa atcaaacgta ataagacaat tatagttggt gtttgaatac ctcaccact 120  
caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgcctt ttaccactct 180  
aattccccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240  
caatatgtgt aaggtaaggc tagagagaca aggaaaagg taaccaagaa aaaggctaac 300  
aatgttttta ggcacagatg aaggaaataa aattcagaat ttaggaattc aagtaacaat 360  
ccttcatgca accaatatat tacctt 386

<210> 12981  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 12981

cgaaattgat caacagaagc tctcgagaaa ttcatatggt cataatttgt tacacggaag 60  
tccgattcat ggcataata tgccgagacg ctcataaatg agcaacggaa gctctcgaga 120  
aattcaaatg gtcataacat atcacacgga ggtccgattc cggcggatag tatatcgaga 180  
agctcggaat tgcacgacga aagctctcga gaaattcaaa tggtcataac ttttaaaacg 240  
gaagtaagat tcaggtgcat aatatatcca gaaagttgaa attgaaccac ggaagctgtc 300  
gatatattca aatggtcata acttatcaca cggaagatcg attcatgcgc ataatatatc 360  
gagacgct 368

<210> 12982  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12982

agctntgaga taattcaaac aacaataact gtttacacgg atatctgatt gagtcatgta 60  
atatttcgag acgctcgana ttgaattcng aagctctgag caaattcaaa cgacaataac 120  
tttntactcg gatgtcttat tgaatcccat aatatatcga caagctcgaa atagaatctt 180  
gatgctctga gcaaattcaa acgacaataa ctntgtactc ggatgtctga ttgagtcttg 240  
taatatatcc acacgctcca aattgaatac cgaagctctg agcaaattca aacgacaata 300  
acttttaact cggatgtctg aatgagtcct gtaatatatt gagacgctca aaattgaatc 360  
ccagagctct gagcanattc aaacgacaat aactttttac tcggat 406

<210> 12983  
<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12983

aatattgtag cggatgctct ntctcggcgt catgcattac tttctatgct tgaacaaaaa 60  
ttgattggtc ttgaatgttt gagaagcatg tatgataatg atgaaacttt tggagaaatt 120  
cttaagaatt gtgaaaaatt ctcagataat gggtttcttta tacatgaagg ctttcttttc 180  
aaagaaaaca aaatgtgtgt gcctaaatgt tctactagaa atgttcttgt ttgtgaagca 240  
catg 244

<210> 12984  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12984

tagcttgtgc tttgaaaatt atgtgtatgg aatatntttg agtttagaat gctgaactgg 60  
gatcatccat ttctattttc tagtttagtt attaattcat gtggctgcgg taaaattggg 120  
ttaccttaca gtttacattg ttggttaaaa aaagacaatg acatttatat tatgggttat 180  
ttaaggctta tttaaagtta agcatagggt ttggttatct actgaaataa tgctctactg 240  
aaataatgct ctgttgctag tgacaatatt gtgaagcttg tgctttgaaa attatgtgta 300

tggaatatat ttgagtttag aatgctgaac tnggatcatc catttctatt ttctagttta 360  
gttattaatt catgaggctg tggtaaaact gggttacctt a 401

<210> 12985  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 12985

gatgcccctc cgacagaaaa attgcttata ttgagacatc attctgctac tggatatgcct 60  
tggatgaaaa ccagggcact accaagctat ggccgggtctc caacaaaaat aggatgaaat 120  
atcgaggctc atgttgatga catggctgtc aagtcttata gcatgacca acacatcaca 180  
gtcttggaat atgtgttcag agagattcgc aagtataaca tgcgcctcaa cactaataaa 240  
tacacatttt tgggttgaag ggcaaaaagt ttctaagctt cat 283

<210> 12986  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12986

agctttgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
aaagatgtcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180  
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240  
gggagagagg ataacagatg anaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
atttgacatg aaagtcactg caatagagga ggccaagac atttgcaaca tgagagttga 360  
tgaactcatt ggttctcttc aaacctttga gct 393

<210> 12987  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12987

tgctaatecca tggaaactcc taatatctcc cacactntnn tgggtgggcc attctttgat 60  
ggccttgatt ntctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120  
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180  
aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctangctcc tactctacac 240  
taaaatatca tcaaaataaa taactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaaggtgc ttgggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca atcttgggtct tgaaagcggg tntccactca tca 403

<210> 12988  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12988

agcttttgat ttaataacag atgaaatagt tgctctgatg aatttgtgga cctcatgggc 60  
ccaatttcta gatgagtgca ttaccatat ttctgccag tcccagcaat attttgcccta 120  
taataaactc tgtattgctt cctaaantt gaccactgta tatcattnta tctccaaaaa 180  
ccttgtaatc tgttaccttt gaccagttta tatttaaaat taaaataaat ttgggtattag 240  
ttgcaattgc aaccattgct tggctagagg tctgcatttc actcgacctt taattacttg 300  
gatgtgtttt ctactgctgg ttcttatntt aaattagtgc ttgttggtgt atgtttaaga 360  
atgcttcgct tatttattgg tgtttgaata tgaacaggag caacctcttt ccttttcact 420  
g 421

<210> 12989  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12989

tctccaaagc atttctagca taagaaaata aattaaataa gcttctccgt aggctaaaat 60  
tagcttatgc ataagttaaa agtgtttgtg aacatcanag aggaggcat caatattatg 120  
gagttattct gtcttttcaa aagcattctt ttgcaatttc tctacctgac ttaatctcct 180

tactccctgn gtttctttnt tctgtatfff ctccctgctt ctctgtccct aatgtccaga 240  
 anattgccat gatagatact tttgttgtgc tcatggaatc acacttattt tacagggtgaa 300  
 aaatccaacc gcaagaattg aacatgaagc tagtacatcc aaaattggag aagaatcaat 360  
 tgtttatfff caacanaggg gaatagacta t 391

<210> 12990  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 12990

agcttctcat tgtagctacc tattctatff gtagaagcat gtgtaatact tgttgtaact 60  
 ttgatgaatg aaagtattat gagacacact tcataggctc acttctctcc ctctcttatt 120  
 ccttcaatff agagctcccc cttctctctt tctttgtctg cattaaagca tcctttttaa 180  
 gcttcttata caaggcatat tcttggtggt gaagctcctt ctcccatggc ttattcccta 240  
 gtggatgacg cctcctctca cctcttctgc tttatctacc ggtgcatctc catgggtggaa 300  
 aatcaccatt gaaggacctc attgatgctc atagatccag cctccataga agctccacaa 360  
 gcaagcttcc atcaagtggg tatctgagca caggagcgtc aagta 405

<210> 12991  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12991

tcacatacca gatcaacagc tttctttaca atagcctcaa gttccacaga ccnctctccc 60  
 attgtctgaa gctgcttaat cttctgctct cttgccagca aagacaatat gcacttttga 120  
 gctgagcaca attagaacct ttataatgta gattgattag caacaaaata caagatatgc 180  
 caatgcccc caacatattg tagctaagat aataaaacaa ctaatatcta aaactaaaga 240  
 tagagataaa cattggcact ntcttagtta catagtgact ctaaaccatt ggttatgtta 300  
 tgagcataca agaaattacc tctcagacgt acataatgtc tccaaacctc aaacactct 359

<210> 12992



<211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12992

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agcttcatga tgatgaacca agcaattttg atgatgtcaa aagcccaagt aattgattca 60
agattgattc aagacttcaa aatcaagcat caagaatcca atccaagatt caagagaaga 120
aatcaagaag caacaagtca agacttcata taggatatgt attaaaagat ttttttcaaa 180
aaccaaatag catagttttg tgttacaaaa gaattttctc aaattttcta agttaccaga 240
gtgattactc tctggtaatc gattaccagt tatcagtaat caattagcag tgaccagttt 300
ggttttcaaa atgttttcaa atgatttata atgttccaaa atgattttca natagtgtaa 360
tcgattacac tatattagta atcaattaca agtgaatatg 400
```

<210> 12993  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12993

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tgcattctata attatattcg actaattaaa gtaattggtt taatcatggt taaataggta 60
ttagttaagt aatattatct taattnttta atattatatg caatattaag tgaaaaatat 120
gtttgaacct atttctactt ccaactaatg ttttaacta ttatcacttg ttntttataa 180
aaaaatatta gagataatat tatttaaaaa atatatatct tgttaccgag tcaccaaatg 240
gttggaatg agtcatgtga agttcttcan aaggacccaa attgtgagtc caaaacaatg 300
tttttttttc ttgtntntta ataaaataaa aaagaagaan aaagtctctt tcaacaagct 360
gctctgaatt ta 372
```

<210> 12994  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 12994

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agcgtcctat ttgcctactc tggatacatt tatgtttaga cgcaccctcc aacgatgagt 60
```

aactatttcg tcctgaggat aacaacgtgg cgctatacgg tgggtgactt ctgcatcaaa 120  
catgtaggct cttcatacca gagattgatg gaccacatgt tcatatagca catcaaacga 180  
aacatcgagg tctatgtcaa cgacatgggt gtcaagtccc aagcatagtt caacacatgg 240  
cagacctaga agaggtcttc aaagaacttc cgaaatatga catgtgccaa tgatgtgcca 300  
tcattgtctc ctatttctta accctttttg tcaccattct aattaccta 349

<210> 12995  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 12995

agaccctcgt ggaggtacag catcaagaag aacgtggaac atcattctac aagctacgag 60  
tggatgatgta agcatactat aggctgtag gattgttagt tagctgttac gtaactaact 120  
acatgtataa aagccatgca cgaacccgtg aaagggatta tggaaataat attgtcattc 180  
tgcgcttaga ctttccttcc ttctctctct cttcacctat ctctcttaga gtattcagtc 240  
tcgatgaaag ctacctctaa cagaaaatct caaacatatt attacgtttc caacattaga 300  
tggttactacc 310

<210> 12996  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 12996

agctttcgat ttaatatctt atgaaatagt cgctctgatg aattcgtgga cctcatggtc 60  
cccatatccc cacaacagct ggtacaatct ttctgccag acccaccgat atttcggcta 120  
taatacacc ctagttgctt cctaaatttg gaccactgta tattcattta tctccaaaaa 180  
cctt 184

<210> 12997  
<211> 591  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12997

gcacactcac agcactcgtc ttactctct gttgtttatc ctgtgcgaaa gtcagacngc 60  
aacgnactta tactcgcttc tccctcgtnc nncnacgcaa gccgtgcgcc attgaagccc 120  
atcgtttgag cgcattatag atactacagc tcgctaaaca cgggaacata ccaaatancc 180  
cacactatta tggcgagggc ctattccttg atggttcttg aatgtctcat ggagcactat 240  
ggacccgcac tctctatcaa catacaacac ctctatagaa tgacgtaata tcatcctaca 300  
cacaaacagg accactcttc tctaataat tgcgctaaga gcggcggatc tcccttaacg 360  
actcgagaag agcttgctct gactatgttc ttaagagatc aatctaggct cctgactgta 420  
cactaaaatt tcatcaaac aaataactac agatctacct atgagaacc ttaagacacg 480  
atgcataatc ctcacagagg tgcttgagc actcatgaga ccacaagga tctaagca 540  
ttcatagacc ctatacgtgg tctgagagcg gcttagcact ggtaccgctc g 591

<210> 12998  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 12998

agcttctaga taaaactaca tgaagctgcc tcggtaaaaa tgctgcgcag cctttgttca 60  
ccgttgatc ttctcgaaat ttggtttgca acttcacaag acacttgctc atgatctgac 120  
cgttgggac tttgagaaga tgtctgaagt gttctagaag cctcttaatg aagcttctag 180  
aggaagcctc ttaatgaagc ttctagagaa aactacatgg agttgcctcg gtaaaaatac 240  
tgcccagcct tcgttcaccg ttggatcttc tctacatttg gtttgcaact tcacaagaca 300  
cttgccatg atctgaccgt tgggatcttt gagaagatgt ctggattgtg ctagaagctt 360  
ccgttcccga gagcatctct tattta 386

<210> 12999  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12999

tcatcaacta cttgtttcca agggaaattc tataaacaga cctcccatct ttaatggagt 60

gggttaccac tactggagaa cccgcatgca aatctttata gaggcaatag atttaaatat 120  
 ttgggaagcc atagaacaag gaccttatgt tccctctata atagccggaa gtgcaacaat 180  
 agaaaaacct atagcagatt ggactgagga agaaagaaga ttagtacaat ataattttaaa 240  
 ggccaaaaat attattacat ctgccttagg aatagatgaa tactttanng gttcaaattg 300  
 tanaagtgt aacgatatgt gggatacact acaagtaaca catgaaggca caacatat 358

<210> 13000  
 <211> 100  
 <212> DNA  
 <213> Glycine max

<400> 13000

tcacacgatt atatcactta atcaggcgta ctaacaggcg atcaatggca ccattatctg 60  
 ccgtaataga atacaccacg ccctgtcctc attgattatg 100

<210> 13001  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13001

atcttgcctt tttaacctga aattgagaga naatgattat taaacacata aaatgagaat 60  
 acttaatat tattacctat actcaacaga aaatacttat aacactacaa aataaccata 120  
 aattacgaga gtttgatata atttatacaa gttttatata taaaagttag tcattttcac 180  
 caactaatag agaccaacca cacataaaga gcaagtgtgc aatagacaat tcttacattt 240  
 ctcttcttgc atctcaagct gaacgtatca tatgcatcga ccagaacaac gatggtcacg 300  
 ctttccttgc ggtgatgata agcaagatag gcattgatgg catctaagtc cactagcccc 360  
 ttacatttg gaaatagtat agtcccaaca ccaacaagct aatat 405

<210> 13002  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13002

ctagagaatg tgagccanac atgcctaagt tagtttaggc ttatgatggg ataggttaaa 60  
 agtgatggta atttcttttag agaattgtta agagatggta aattgtaagt cgagttataa 120  
 ccttcagct aaggaaatta tgcactatct attggcgggc tggcattgtc taaaataaga 180  
 ccgtttactc taaggagggg agtctatatt aagatggtgt gatccgtgta taaccagga 240  
 taaccaagat gtaccaattc tcaactaact actaagcttt tgtattacat cgtgtaacta 300  
 gttcacttat gcattcgtaa tgtctaattg tngacttcta gtgtttcctt gattttgggg 360  
 tgtcagcatg atgttgtgat gt 382

<210> 13003  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13003

ttctttgatg tatctntgtc cagaatccct ttgaaggagt ctctagccac cctgtcattg 60  
 atgcataaga actcccaaatt attttcccta agttatgcac cctgccaaaa ctgaattcag 120  
 tgctaattctg atctctaatt ctccagtaaa catacttgga gaaaaaaga tctttatctt 180  
 atccctgcta atcacttgac ccagctaga gcagaaactg ctacatctct ctaatgtgac 240  
 tcccaagtta cttgttgccct tgctatagat tcttttttgt tcttttgggg cctttaatgt 300  
 ttgatagtat gatggaattc tctagaactc ttggttgaaa cttgaaatct atacctgccc 360  
 ttatgagaat gctaagaaca tatttactt 389

<210> 13004  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13004

gcatatatcc tggaccagaa ttcatatcac tgaatatgta cttttgcac tctttccctt 60  
 tgcagggttag attgcatgtg gaggtgccat cattggtatg tgaggattgt tacaagaggg 120  
 tcatagcaca gtttatgaaa caagcaaagg tgctatggng ttacacttat gctctatata 180  
 attatataat attataatgt aatgtctctc tcatattctg gctcanagaa aatatatgca 240

tcanattata gntgtctgtg aatatggtgc agctctatTTt gtcggtcacg aggaattcca 300  
gtgtctaaat ttgaaactat aactataact ataacctctc aat 343

<210> 13005  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 13005

tgcttcccc tcatgatcac tcttgccTTt tcatacactg ttttgggtac attgaaggca 60  
tattcataca cccttttaca aaacaaagaa agtcagctga gtgtggaaat ggcttttgct 120  
ttgaaggcaa tttccgacca cactgcagtt aaggTTtctt ttatTTTTt ttttttttct 180  
tggctcagcc aaaggagaat atcattaata ggtaccagaa gtagccagat aatcacaaaa 240  
ctcatgataa gattcatggt ccagataca gtaattatac taacaataga aactatccta 300  
agtataccct gcaatcccac catgcactga atgaacaaat tattaacaca acaaagccaa 360  
gcataatgca tatcccaa 378

<210> 13006  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13006

ntagtgcctt taattntgat gcaatatttg acattcccat aatgtattcc ctgacatttc 60  
cttttccttg atacttcatg gaaatcaagt tctgaaggag agtacttggt tccatcttat 120  
ccctttttca aagcgctttt caatntcaac aaggaattct tcaccactag ttatatcatc 180  
tcaaacaatg ccccgaaaga cctcaagaat gtcatgctta atgatcataa gactcatgcg 240  
aattgaatga tccctcttct catgaagttt cctttgttca gaggtactgg agtccgt 297

<210> 13007  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13007

agcttttgtt cttcagccac caatccatta tcttgaaagg tttaggtccc caatcattgg 60  
 ttctagacct caataggatg gggcaatgat cagagaaatc tctatccaac acgaattgag 120  
 tagtatctag ccattgggac agccagtcac cagaaagaag gaacctatcc aatttgctca 180  
 tgacagtccc attgngtcta caccatgtga aatatctccc aacagaccta acctcctcaa 240  
 cctccatata tganatccaa gaattaaact cagagatgct agtaagtttt atcatacttc 300  
 atcttgctct tacagtngtt tttatcagca taggacacac ccaggtctct agcaatctcc 360  
 ctatgaagat cctcctcatt ctcanaataa ctattattga 400

<210> 13008  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13008

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 tctaattatc tattcatatc ttctgagttt tcaaattggga ggaggaggagtc aactcagtc 120  
 agtttagaaa ttgtaggctc atottaagaa agaaaaagaa acacaactca catggagcca 180  
 gtcaatacag caaatattac agtcaaaacc ttgccttcag tatatccttt ctctattatc 240  
 attgttgac caaaccatac agccagacca taactgcaga taaaacaaa gtagagcaaa 300  
 ccatatccca naccagaggc tagtgctctc tgcactccag tcttatatg 349

<210> 13009  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13009

agcttattgg aaatctcatg aaccggtggt tgcttgnnga ctggatgtan gcacggggtg 60  
 tttcogaacc agtataaatc ttgtgtttgt cttcttcttc cctacactct ttactttcct 120  
 gctgtgcatt ntttatttcc gctntacttt tatctaagtt attgtttctg ttctttactt 180  
 tctcataact tagtagtaa gcottattga atctagtaac attaagaagg attaatTTTT 240  
 aattagtcaa gacacattca taattaattc aacctctct tcttaattat tccgaggcca 300

cttgatccaa cacgaattat ggaggaggaa agaacaagca tagttaggtt ccttcgtggg 360  
 cttaatatgg aagtgaggga acaagggtgaa ctccctccat at 402

<210> 13010  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13010

gtggaatca gagcacaaga gcttcaagta ggtgctcctt atacctccat taatgggttt 60  
 gctntacctt ctcttccatt ggtgtttctt cattnttctc catgtatctc ctcacatgtc 120  
 ttgttctaaa tgttggttaac atgattcttt agagtttcca ccgattaaac ttgctataga 180  
 agttagattt gattntctat ggttcaaatt tcttgttctt gttcttgaac catgaattgt 240  
 gttgagttta agttccttta agtnttgtct tgttattttt tggggctgaa acctaaacca 300  
 taaaattctt caaaaatatt aaagt 325

<210> 13011  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <400> 13011

agcttctagc ttaatggact tacctagaat taattccttt gataaccctt ttgagccttg 60  
 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
 atatccttaa ggaatttttg agctctggaa ttgttttggg aataagtgtg gggagttttt 180  
 gtttcattgg acaacttggt ttgttggtta agcttcatga tgtaatttgg gccatactcg 240  
 atgtacattg tatattgagt aaatgttaga catgctgaat gaaattatgt ttctcaaaga 300  
 ccaaagagta aaaaataata aaaaaaattc ggataaagaa aaagataagc aataatgttg 360  
 agtgaataag atcttaaatg gcacacgatt gatgaaactc t 401

<210> 13012  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations



<400> 13012

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cgatgttggg ttgacgcaac gtgcttggtg cgggcccttt cgggatcggt ggatagaact 120

cgacatccct ttgagcataa tcttgagggg ctttggggac ttcttcaggc tgttgaggag 180

gctctctttc aaggactgga gaagcaatat ggcccgcac gtcttgcaag acgggcgggtg 240

agtaattgtg cagcaatcca taacggtaag ccgctcggtt gtatcccagg tgagggctgc 300

catagtgcc cagtgtgtcc cttccccgtc ctactatg 338

<210> 13013

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13013

agcttcattg tctaacatgt caacttaca cagcaagccc caagagactc agcataagga 60

tgcacagacc aaagttgcgt atgtaaaaaa attgtatgac caagtgaagg tgcaaattgc 120

aaagaagaat gaaagctatg ccaatcaagc ccaaaagaaa aggaaggaag tgggtacttga 180

acccggtgat gatcttggac atttgacgac aaatgttctc caagaaggag ggaatgatga 240

gaatcatgaa acatgccana tacagtctaa aggcccaagt ggagaatgac gaatgcccaa 300

ttggataatg acaaatcccc cgagtggaga atgatgaatg cccaagtgga 350

<210> 13014

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13014

agatggacca ttcaagtgt tganagaatc aatgactatg cttacaaagt tgagctgccc 60

ggtgagtata atgttagttc caccttcaat gtctcagact tatctctttt tgatgcagat 120

ggagaatccg atttgaggac aaatccttct catgagggag agaatgatga tgacatgacc 180

aagaacaagg gctaggatcc acttgaagga cttggaggac ctatgacaag ggctagaaca 240

aggaaagcca aagaagctct tcaacaagtg ttgtccatac tatttgaata cacacccacg 300

cttcaaggag aaaacgtcaa agttgtgagt tgtatca

337

<210> 13015  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13015

agctntntgt tttagaatct tgggatcaac tcattttatt tcaaaaagga agtcgtatct 60  
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gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180  
gtctgccatc gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaagggt 240  
aagagcaaac cgatccatcc acatggttgt ctcttggtgt aaagagtcga tcacccttcc 300  
tctagcctct ttgtccgcat atacttgagc atactcatcc gcgattctat gctcgtgggc 360  
catggctaga cctaactctt cttggtactt ggcgatgata gct 403

<210> 13016  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 13016

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gtgggccatt cttggatggc cttgattttc tcaagggtcca cttggacccc atttctacca 180  
actacaaaac ctaagaaaac tatattatct acacaacagg tacacttctc tatatttgca 240  
tagagggtgg ttttcctaag gactgataga acatgcctga gatgtcctaa gtgatcatct 300  
atgttcctac tgtacactaa aatatcatca aaataaacia ctacaaatct acctatg 357

<210> 13017  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13017



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 ccaaagactc tcattcatca aactttcaac ctaggggtac aactgcttc tattatatcg 180  
 gctatgcacc tcgtcctgct aacctttttg tgaacacttt cttgaaacag ttctcttgta 240  
 aaactctgct gcgaagatat agcttagcta tcaccaccgc ccctacatag tataactcact 300  
 cctttaaaaa ctatctttga aaagttcttc atgaacgtga gcgttgctct ctccactgtc 360  
 taatagctat gtgtacttct tggaagaaac ccatagtttg tccccccccc ttatatgtcg 420

<210> 13018  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13018

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 cgatggtgca catcaagttn tccacatcca caatgcgcgc ataaaccac catcctctgt 120  
 tgcccacctc caactgagct caggtactcc caggtagccc ataccctcgt ttctctcaac 180  
 actgggtccc catcaatcct cccaagcttc cacaacatcc aagcaacaca acattcaaac 240  
 agcacaagct atcacagcca agcaaaacag agcaaaggca gataactctg ctcaacacac 300  
 caacccaaat cacagctttt ctacttaga gaccccgta ataattcctt cgatccaatt 360  
 cactaaccgt tggatcgact ccaaattgt actggaagtc tacagtgcac aagcctacat 420

<210> 13019  
 <211> 125  
 <212> DNA  
 <213> Glycine max  
 <400> 13019

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 ggacg 125

<210> 13020  
 <211> 483

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13020  
  
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 ccgctgccca tgaccctgt tgaccctcta ttagcgacct tagatactaa cttgcaccag 120  
 ctgccagcag ctcactcgcc atcgagctag ttgttctnca aaagcacctg gaaaacttct 180  
 ggatagccat atgggtctga attttatttt gaccccgct ttatactaaa tacacacgct 240  
 ngccctttta tgctgattct tttttccgta acgttacgga aacttacgaa atttcgtatt 300  
 gatactttgt tntctcttcc gtaaatggtn tgggaactta cggattacat aatcatccct 360  
 ttttgcggtc cgaatgttcc gaacttacga atgtgcatta cactcctttt gactttcgcc 420  
 tgtacggaat tcacaggtgt gcataatgct ttctctgact tccacatccc aaaatttacg 480  
 atg 483

<210> 13021  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13021  
  
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 ggcaaaattg gatgagggaa agagtgggtt tcgaaatctg cactttatgc agaattttgc 120  
 tgttgaaatg tgcagcagaa ttttgtataa gtgcagaaaa atgcttgtgt atggttggct 180  
 gtggaaaggg tagtgcacat ggngttctgg acattggata gtagatcca acggtcaaaa 240  
 tgtaggctta tgtactagag acttccagta aaattttcga gtcgatcaa tggttaacga 300  
 cttggaacga agaaaagggtt actgggata 329

<210> 13022  
 <211> 535  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13022

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tnnaactacc tcacaagtct gcgagcagcg ttgagacccc ttctttgaac gccatctatt 120  
atgagaacta tagatactgc agcttgagct cggatcaacca cgtatccaac gaatggaata 180  
tctgatcgcc tatacttcaa caacatctca tatggatgaa tgactctggc atactataag 240  
ctcatgcacg gaaaatgtaa ttatgaaatt gagatgcccg aagaaacacc atattctatt 300  
taaccatgca ttacgtacca tgtccaatta tttatgtttt aagtgaacg ggtgtatgat 360  
cccaacatgg ttggctccta acacatgata ctaataatgg agcgtgaagt ttcacactcc 420  
ttccttcttt gataatgttt tgagaagaaa acgccccgat gagcaacctg ataactaatg 480  
gtctgcactc tatcacatca ataaggtttt gaacgcatat gcataagatg cgacn 535

<210> 13023  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13023

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agaggtgagt ttgaatcctt acatatgaaa gagtcggagt ccatttctga ttattnttca 120  
agaattcccg tagtttcaaa tcaactagaa agaaatggtg agaagttaaa agatgtaaga 180  
attatggaga agatactatg ctcgtagat cccaaatttg tgcacattgt tgtgacaatc 240  
aaggaaacca aagatttaga aactatgatg atagaaaaac ttcaaggatc actgcaagct 300  
tatgatgaga agcataagaa gaagcanaag atcactgaga aaatcttcaa gatgcaacta 360  
aaggagaaag aagaaagtcg aggaaatgag agaagtcaac 400

<210> 13024  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13024

nnggacttct atgttctggg aacctctctt tnccttatgtg tacccaaact ccatcacctg 60  
gttcaagcat gactntcttt ctgctttatg tggcttgcct tgcatagctc gcagttttct 120

tttcaatttg agccttccact tgctcatgca gcttcttcac atactcagct ttagcctgtg 180  
 cgtccttatg ctttaagcata gcaatggttag gcatatgcaa caaatcaaga ggaagtcaag 240  
 gattaaatcc atacactatc ttaaattggtg aacaattagt tgtgctatgg acagtccgat 300  
 tataagcaaa ctcaacatga agcaaacatg tntcccaaga ttaagaatth tcttaaaaca 360  
 gtccctaacag tgacctaaag cctat 385

<210> 13025  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 13025

tttctttgag tcttttcaaa cgacaataac ttttgactcg gatgtccgat tgagagccgt 60  
 agtatatcga gacgctcgta attgaaaacg gaagctctaa gcacattcaa acgacattaa 120  
 cttttgactc aagtgtccga tggagtcctg tactatatag agatgctcga aattgaagtc 180  
 tgaagctctg agataaatca aatgacaatt actttctact ctgatgtccg agggaatacc 240  
 gcactatatc gagacacttg taattgaaga tgaagctttg aggatattct gacgaaatta 300  
 ctttttactc ggatgtccat tgagtcctgt gctata 336

<210> 13026  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13026

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 tcctttcccc atcgtagtcg ctgngcttg tgacccttta tagcgacgta gctacgagct 120  
 ctgtttaatt gcaccgttca taaccgtgtc ccaacgttcc cagaataact ttgacgtgga 180  
 tcgctgaagc tctatgttaa tcgagcgtct catatatata ggctcatccg atccgcgcaa 240  
 aattttgctt ggtattgata gagctatatt tacattagga ctgactatta ccgggcctaa 300  
 ccacatcaac acaaagctat tgccccgagt gtatagacct ccgttgaccc ccatttatgc 360  
 aaaaacaggc ctgatcgagc ccggttaatac tttggccaga acaataaaaag ccaatatctt 420  
 aagccatgtc acatc 435

<210> 13027  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13027

ggnatctttc ttgccttatg ggcaacaact agagagagat tctattgagc acttgatgct 60  
 attctctaata taaaaatgga cccgtactct aataatctag gctctaaaag tctgatttat 120  
 agaaaacggc acctgggttat cgatgacaca ttaacgcgca tcacactcac ggtatcgtat 180  
 gtaacgcttg accttaatat atgccaagta atccgagtag aatccctgct tcggcatgac 240  
 cagtatatag acaccgttta cctaaaccct gtataccctt acgtttattc agcatgaaga 300  
 acacctccat tagtatgtaa gtctgagatt gtacatcact gagaattgat tagtcccatc 360  
 ttgacgcccc tatcatagct tatagagatc tgaaatggcc tcggacagct acg 413

<210> 13028  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<400> 13028

atatttcacg gcatcacaat gataattaca gctcttcata ttgtgctgat accaaatctc 60  
 aagggtgatta ttcattactt tagcttgtct tgtgcacaat ctecta 106

<210> 13029  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13029

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 acactntctc acaccatatg aagagactaa aagcaaattg atagaaatca atttaagtgt 120  
 tagcaaaaact gacaagtgac tcttttttta ctcatatgaa ccttcttcat gggatctcca 180  
 atcaciaaaga ttgggtggcc atcacttggt tgttttcaag tggcttaagt cccattcccc 240  
 tcgatgtttc taatatcata ttcttttcta aagggtttagc aaaagatctg ctgagttttc 300

ttctaacttc acataatcta tggaaatngt tccatctttt agcagctact taaccacatt 360  
atgtctcagt tgtatatgtc taatttcatac gaatgtttta ttctt 405

<210> 13030  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13030

tganaanata tacttttttt ataggaaaca ttccataaca acgaatatga tgaccttgctc 60  
atatgtcttg caccatgca tggcctgtnt gttgggtggg tatgcacaac tctttacata 120  
gatnntttta ttgcatattc acccataaac acagccacat aagatgctcg ctccataagt 180  
tcatcatttt catttggatt tgattcaaaa ttctcaacca agtcattcat ctttgacctg 240  
tatagaaaca atattacaca atacaacata tatcaagata cacatgatta aacataagtt 300  
cattaccaac cataatat 318

<210> 13031  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 13031

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tgagccttgt ttccctttcc ttgttttgaa gctcactata agccttaagt gaaaaacat 120  
gatatcacca aatctttaag gaattttgga gctttggaat tgttctggga ataagtgtgg 180  
gggggtttttg ttccattgga taacatgttt tgttggctat gcttgatgat gtattttggg 240  
ccataacttga tgtacattgt atattgggta aatgttggac atgctgaatg agattgttgt 300  
tctcacaggc tacagagcaa aagaaaaatc gaaaaagaat aagaacagca ataaagttga 360  
gtgaataaga tcttaaatgg caaaagaatg atgagactct tggttctact 410

<210> 13032  
<211> 248  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 13032

agaaaagaag agaaaaggag aanaggagaa ttcccgatca aaagaatcgg aagaaagcaa 60  
 aaaaggaaag aaaattccca atcaaagatc gggagaaaac agaagaaata tacagaaagg 120  
 tctttggacc anacgacatc tgaacanata cagagttatc accanagtaa atatagaaag 180  
 aaaggaaacc acgacctana gtggtcccct ccctttgatt gccaaccaaa atcccggtgcg 240  
 tcggtgac 248

<210> 13033  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13033

agcttcaagg ctaagtcttc atgttgctcc ccctatctct aacatccgat ggattctggc 60  
 cgccggaaat acactttttt tgtagtgagt gtagtgtagc gagtggtcca gagagtactt 120  
 gttgtagcta gaaatggcat agagaatact tgattgtaat caaagaattt attagtggaa 180  
 cccttcaagg tttgaagaat aattggacgt aactcaagag ttgggggtgaa ccagtataaa 240  
 acctttgtgt tttctttact gcttctatat aactagttat tctctataag ttctacacta 300  
 ctataaccaa gttntgtgaa ctgggtttct aagaacaatg tgatttcaaa tcccttggat 360  
 gatacccatc gtccattgag aaaagcnntt taaagttttc 400

<210> 13034  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13034

gctgggcaca acaccatggt gnacanatga tcattcatca cttattctaa ataaaaagaa 60  
 aaaaaaatc taacggcctg cttagaagta gaagtaggaa ttttaccxaa ttgggttttt 120  
 cacaccaggt gatgatttca cccaagccac gggaaataac caaaaacatt aatggatttg 180  
 gttcgaatgc acatataatt tacactagca ttcaaaacaa ctagttcaaa agtcattttg 240  
 acagagaaaa gaaaaaaaaa ttacactaac aatgcatcaa aattaaacca aaaataaagg 300

cttaactact ggtagtccc tggatttang gaccctatnt ttnttaannt cctaaattta 360  
 aaaataatnt ttttaccgtg acaattgntn tctagtcata ataan 405

<210> 13035  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13035

agcgtctatt tctgtaggtg tatcagnntg aattctgaac aatgagggct ctaaattgtga 60  
 acctgatgct ctgtctggaa atgcaagtgc aatttgtatt tgtgcatgtc atgtcctaca 120  
 aaacggacga agtggaagtg gaaatgaaca tagattgctg cccaaggaac aagttatcct 180  
 tcctcgctac tgcttctttt gcaagggcta ttttatatta tttattaatt acccgtgaac 240  
 tacataattg aagttatata gacagctgac tgatagtggc tatcatttgt ctttgatctg 300  
 aattacagtc tgcagtgacc gacatatcta aattcagcta acgcatgttt tgaaagaaaa 360  
 gaagtgcatt tatgaatttg tgttcacttt aatgtga 397

<210> 13036  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13036

nttgaaccca tgatgaagcc tcttagatac tacgtcttag gcaacttctc ataacctgct 60  
 cttgtgcgnt gaaggagtct aaagccagat tagaatcatt cctaagggac taagccttct 120  
 atctgacttc ttctactcaa tcagcatgaa aaggcattga aggggtgccat acttctatct 180  
 ttcttgactc tcgtcttgga cctgtccttt tgggacagcc tctctcttca caccttgaac 240  
 caggactaaa acctatccct tctatataaa tcctacttaa ccgctaaagg aacgtaagtg 300  
 catttctatt ctaaaaggag aggggttggc aagctacttg aatggacatc tgagatggca 360  
 tcaaccgagc acaaacagat ctggctgcta gaatgaggca atgaaccttc tacataagta 420  
 tgctt 425

<210> 13037  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13037

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 cactcgccaa tatcccagct ggaaatcacg agggcatggc cgtaccaaata ccaatgtact 120  
 cggaacatca tcttcgtata tcgcgaccac ttgaccttca ttccccagac ccgcgcttat 180  
 aaagctccta cttatgtggc aagggtgggc tctgtacct tcttgtctca accgcgagct 240  
 ttgactaccg ttcttccttc acgcgatgct tatctttata tctgcctgag tgggcttata 300  
 gcctatccca tacttcccac gattgccttt ggcatttatc aagctagtta tac 353

<210> 13038  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13038

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 cataagatcc aatttacttt gaatcttctg agccattggt tatcgtgttg tgaggatatat 120  
 atccgttatg atcaatatgt tcaaagcatt gaaggggagc ttgagatata attcggcttt 180  
 gtggtgaaaag aaggaaaact gagattctct ttctttgtga acgacggaag cttgacattn 240  
 tagttactct ggtcaacgtg cgaagtatat atgatacata taattgcaaa ttttctagac 300  
 ttagaaaact gtgcgaaaact tataattcat catcttatta tatactttac acat 354

<210> 13039  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13039

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 ttactttttat cggttaaaat gaacctttca aaagtctaaa atcaacccta cgcgtaactt 120

tcttgctttc aaagaactac gtaggtctga gttcctcatc gtaattgagg atacgtagga 180  
gcaagagcca cactcttgta gacctcaaaa attaaaaaaaa aaacataaaa aagggaat 240  
aaacaaatat tgaagtcagc attttgcaca cttgattaaa ggctgtcgtc ccttgagcca 300  
cgctcccaaa ccttttatcc ttcaaattca tagaccctt ttcggttttt ctaacatttt 360  
cctcanataa acgttggtgg cgactccgcg cgttntcctt ccttggaaga cacaccc 417

<210> 13040  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13040

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ttgtgatgtg agctcgagaa aactcttctt tgtaggtgtg taggctcgat catgaaggat 120  
ggcatggtca ctgactgcc aattttcaat caactocata gcttcacag gtgtctttag 180  
tttgatcttc ccaccagcgg aggcacaaag taactgcttc gaatggngtc ataagccatc 240  
aatgaagtta ttgagttgaa ttagctcgct gaacccatgg gtgggagtct tctagagtaa 300  
accaaggaag tggtaagag cttcactcag tgattcatcg gggaattagt ggagtg 356

<210> 13041  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13041

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tcccaatcat ctctgggttt tttgtttagt cttacttaca ataatagtct ttaagctaaa 120  
aaactacaat aatctaatta taaactatct tttgaacaca aaataaaccc aataaacaat 180  
tgatataaaa taaaacactt gggtagaggc aacccctac tattagattg tgatcccaca 240  
agcaccttcg gctgtcagat gatgtgtgt atntcattct atctttcgct tacttttcat 300  
gcttagattg catgcattcc atggtaactt aagtttagat tcatgaataa atctcttagt 360  
tttttctttt ctttttcaaa cattggtatg ct 392

<210> 13042  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 13042

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 ctaatcaaag gactagtgcag cagccaaccc atgtgcacat tggagctgtt gagcgtatgg 120  
 ggatgttagg attcaattgt aagggtatgta actcgagtct cacatggaaa tatgtgattc 180  
 tagcatggcg ttatatacagc ctttggctct cctactacaa tggctagctt ctgtgacata 240  
 gttttcctaa cggttcttacc acacacattt caagactaat ggtatgagac actggaacac 300  
 taaagagagg ctaatgccag catccaccac atataatttc tcatgtttat atatccaaaa 360  
 taatggataa tgcaagagca caccaatgct 390

<210> 13043  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13043

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 tctttgcttt tattgggttaa acatgaactc tcgaaagcat aaaatcaaca tgtaactttg 120  
 tcgctacttt caaatccaag agatcattaa tgggccaaca ccttaacggt tctcttcttt 180  
 aatagaattc aaagatcatt taatgggtcca acgccttana cgacttttgt tcggtcaaaa 240  
 tatatcctgc aaaaaaaata aaaacaactt aaccaacgct tagttcttat agaactgcgt 300  
 aagtttgatt tcctcatcac aattgacgga tacgtangag cgaggggaaac acccttatcg 360  
 accacaataa gataaaaaat acaaagggtc aaaaagacat aaaaacgtaa c 411

<210> 13044  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13044

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cccagggcaa cccaaaattg gtgattagaa tatgcatttt tcttaactgg aaacaaagaa 180  
tatccccccc ttttcttaac agatagtaag ttcaccaatg atacttttat catacccttc 240  
tatcagtatg caccggttgc ttaaccacat acacctccat cttccgtgca attgaacaga 300  
attagaacgg ttgctaccag ggaaacatta attgattctc agagggttgc attggcattt 360  
tctaagatta atcatccatt tgagaccct tctcaaaata gtattctcta acttgnnggt 420  
aggaacaata tctatcaggc ct 442

<210> 13045  
<211> 51  
<212> DNA  
<213> Glycine max

<400> 13045

tcagcacctt gtctgcttgc gtgtataatt agccaggcgg atacagggca g 51

<210> 13046  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13046

cccaccagc aacaaataaa aaaaaagatg aaaacgcgt cgcncataag agcgtgacct 60  
gtgaacctga atcgacctg agaccacca ccaaactaac tccctacacc cagattcgaa 120  
caatgttttag caccgatcaa gactgctgcg caaaacgcac atagtggcaa gaagctacaa 180  
ctgcttcaag gtaaatagaca tgcacaaagg cccccacgtg taggaaagat acacacatga 240  
atacctatcc ccacggtagg acccaaccaa tgatggagca gccgaattaa aggactggac 300  
gaggtagcca cttcccttag gacaatgacg agcgaagaca tacctaccac tggagttggg 360  
caccgagcaa agacaccata caatgaacat gcgtctacac gctgctgcaa caagaaaccc 420

<210> 13047  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13047

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 caaataaata ataaagtcac ctcgactcaa agaaagtcac ataagtctca tacaattaat 120  
 atagaaccta tctcctaagt tcacatccta tcagagcgtg gtgttcccggt gtcctctagc 180  
 atgaggctct tcatagtcac ccacctattc atctgctccc ccgaacacaa gttcaagatc 240  
 atcacaggat ccaaacacaa caacgcacag ggagtgagtt atcacattcc tagcttatag 300  
 agaaacaaga caattaaata tacatattat ataaatgaga taccacttgc ttaaacaatag 360  
 ctcacgtaac ttcaccactt cgtcattcat aattcacttt tcaattatca a 411

<210> 13048  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13048

tttgaccccc ttcattgana cgcattcatg tangcgacag tgtgcactac tccagcttcg 60  
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 agcgccacac tcattggcta atctcaatga acaatctggt aagaatatga cctgtatatg 180  
 ttgcactgaa tgctaccggt tcatctcact aagctgcacc gcttcatcca ttctgctagc 240  
 gaaaatagca cacgcttagc ctgaacttac gtatgtgcac ttagcggctc ttaattgcgc 300  
 ttaacgcaca acgcgaacac tgtccctatt taagccttan atcatatctt ttatagtagg 360  
 ttggcggata gctgacactt tgatgtctag tgattctaca gagagaaatg aanggtctaa 420  
 ctccagagag tgcgatagat ttagtgagtg 450

<210> 13049  
 <211> 549  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13049

actgcgcagc acacacagcg gctcgggggtg cagaaggtag agataaaccg cnaactcctn 60

ccgagcgcga gcttgaacct gaaacatctg anaccatgga caccacgcga gccgagagcc 120  
ccggaagccg gaagccactt ttgcagctaa gtgaatttat ctacgtccaa gagctgagca 180  
cgcaaccaca acccgaacgg cgaaaccggg caccacagga gtcccacaac gagcaccggc 240  
gaatcgcacg ccgcgtgaca caaccacgag taggaggaga cacgcaaacy actggacgaa 300  
ccgctccaca tgaagaacaa acatcggtac atcgctggaa aaaagcagcg ggcaaggcac 360  
tagggaaaag gacaccatgc acgccggcgg aggaccaca gcgcgccaat aggccagaag 420  
gccatcgatc agccgcacca taaaaggaag cacaccgagt ataacgcacc agtcggccgg 480  
gaggaccaga ccaaatgggc acgctgtaga atgacacgag acaaaacgcy agagaaacca 540  
acgccgacg 549

<210> 13050  
<211> 504  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13050

accacagcc cttaattcta caatagtatt caatagacca cgaaacttga cacttgatcn 60  
ctcaccacca agccgccgga caccttganc ccctcgttgg acccattcga aatgcaaacc 120  
atagaaacnc agctggcttg caaccaacct ctgagagacg atatcggtgt tcagactcat 180  
tattttcgcc agggatctta gcggtggaac caatgagtct aagtcctagg gcttactcac 240  
gcccggaac aagaaggggtg tgaatgatga atccttagaa aggctacatt gagtccatac 300  
taaagaggat aagctgactc gtacaccgaa gagcgtctat cgataagtct aacgctgggtg 360  
agactctagc aaagcgaaat ccacttgtgt aagcatcatc aagccaagac tttggttaac 420  
ggctagaaaag gaacgaagac ccattcatgg agttagataa atcctatcgt aaaaacacac 480  
gcttatagcg cacaacacga aacn 504

<210> 13051  
<211> 262  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13051



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atcgttggat ctgtaatctt gtttataggt cttgtgtggt aaaataagag atcttatcaa 120  
tgatcttgtg tgagaaaagc ttactaaggc acctgttcta gctcttacta acttttctaa 180  
aacttttgag ctagaatgtg atgcctctgg agtgggagtt ggagctgctt tgttgcaaag 240  
agggccccta ttgcttattt ag 262

<210> 13052  
<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13052

agcaagtcac gtattacaca agttcgtata tctaacggta tatcttatcg tgacttcatt 60  
tatttgtcat aaatatcgat acatcttaag aaaatatttt tatagacaga atttccgaca 120  
gagaatagta aatgaagtat tacatattat acacaacatg ggatgttgac tggatatacc 180  
tatcgtgtga gaatatcata cgcacatcat agagcatatt ctctctatgt tggcntacat 240  
ctaa 244

<210> 13053  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13053

tatcttctgt ttaaaacaat tgagcatcag ctattattca gcanaatatt agagatgtat 60  
gttaacagtg atctattaac tttttaaagt tttacccatg tttgaaagaa tagaaatgct 120  
ggacagggtg agctaattcct atccaattnt actatgaatt cagtaactaa naaagatagc 180  
atctagatat ctgccaacag cctcatacca tgtaagctga tattgttggt tacaggggag 240  
gtaggataca gctaaataac aacttataaa atanataagc cgtaagttat ttacatgccc 300  
aaataatntc aaanaggatt agatagagaa atcacagtgt cccttacttg catttgctta 360  
tgg 363

<210> 13054

<211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13054

tcccttccac cccaactttc cagattntat tgcctttngc atctgtaaca taggcattgc 60  
 cttctgcac aactgcaaca tcctctgcga atgattttctc atcacctgca tccaatggaa 120  
 aattgatatt gtcacaaaag gccaccagt tgtatgtcta agctaacaca attttgaaaag 180  
 ctatacccca tggttatgaag ccacgagaat atangacatg caattaatag aagtactgac 240  
 gtangtangc cattttcctt ttgttattta ttgacatgca tagttcataa ctaatacatt 300  
 gngaagtgtg gtcacggtgc aattgacaac cattcatatg tttttttcctt tcttacatnc 360  
 ttcttgacac catgaataac a 381

<210> 13055  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13055

agctcttttt aatttcattc tcttgctcgg gtctccaaac caattatctc taaagtataa 60  
 caagttatga aatggtacac acaattagaa aaatatgaaa tttacaattt cagataaaaa 120  
 aatcagcatt attatccatt tcaaccattg aactaattca ttaacagaag aataatttac 180  
 cttanaatgc tgganaaaag ttctgatga tcttttgga ttgctcccca tgtaagccaa 240  
 ggctgaccan attgttgctt aatggacaaa gtgacagcct ttgccgcaac cttagatgga 300  
 tgaaacctan natataaaaa taattcatca naatagtaaa agatcaaag atgcatcata 360  
 tataatgata attatata 378

<210> 13056  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13056

cgtgtgacaa ttactgtga cagtcaaagt gccattcact tagcanatca ccaaagtac 60

catgagagga caaagcacat atatgtgaaa ctacacttca ttagatatgt gattgaatct 120  
gagaagggtga aggtggagaa ggtttcaaca gaagaaaact cagctgatat gttcacaaag 180  
tccctctcta gtgtcaagtt caagcactgt ctggacttga taaattntga agatgcctaa 240  
agtagattgg tataagtga gccctgaagc acaaggtaga cacttggtga tttggagtca 300  
aggtggagaa ttgtggtgtg tgactcanaa tcacaaatgg cacaagtga aaggctctaa 360  
gaggtgctgt cataacagt 379

<210> 13057  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13057

agcttgtgag atctgaagac ttcttcagac atgtagaact ggggaagact gacaacccaa 60  
taggttcaaa cgtgacctca agtgtttgtt gatcaactat cactgactaaa cactgtgggt 120  
ttgaacgctc cccacactca ccctcgaggc actgagatcc ttatagtcct tgaggggtact 180  
ctctatgttg gatntgtgac ttccaatcaa gatggaaatc acctcttcaa caaagtgtgt 240  
aacaaagggtg atgtgtttgt gttccaatc ggtctcattg atttctgcat caatgtggga 300  
tatggcaatg 310

<210> 13058  
<211> 256  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13058

tttttcaaga gatttactct cttgggtatcg attaccagag aatgtaatcg attaccagt 60  
gccaaaaatg aattacaaca gctattaaaa tttgaattca aaatttgac ttgtgtatgg 120  
attacacata tatggnatc gattaccagc agttactgaa cattttaatt canatttaaa 180  
agcttgaatc gattacacat atactgtaat cgattaccan aggagatttt cagaaaatat 240  
tctcaatagt cacatc 256

<210> 13059  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13059

agcttcagat tacantttttt gttcatacaa atcagccgat tgttgatcca gagcataatg 60  
 ttaccacaca ataaactgta catatatatg acctacagtg atatctgcta ctaatgcaaa 120  
 aatctaaacc taagatttga ataccactga ttatagtgag tggcaaaatc cttctcttaa 180  
 atatttcagc caagaccata acataaacac tgtccaatca ttttagtttc cccataacaa 240  
 aaacacttta ctttctttga tgtttgtaac atggataatc agaaattacc ctgcagagct 300  
 agtgatagtg ctcaactcgcg gtacataatt gctatgctat ctatcccacc ttgac 355

<210> 13060  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 13060

tgtgtgtatg cacagttatt tgtaaagtga ttcccacaag tcatttgaat ttccaatata 60  
 gttataaaat gcaattcaat gttgaagcat aaaaaaactg gatattaata actacaataa 120  
 tgggtgaaaac aaccaaatta gcgaagctaa aaggctaaat atttaaaaag ctaatgatcg 180  
 ctcaacatgt aaattaacaa accatcattt taaaaccag agaatacaaa ttaaaattca 240  
 atcactattg gtgtcgcccc aattctttat gtcttctata acaatttccc aaactttgtc 300  
 atgaggcctc tggtagaatg agaagtcgta tccactattg ttgggtgagt caacaatcca 360  
 tacatgcatt ctaaattgta ataggggtct at 392

<210> 13061  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13061

agcttctgtt gttcaatttc gagcttggtt acatattatg ctccctaatc ggacatccgt 60  
 gtganaagtg ataaccaaata gaatttctcg agagcttctg atgtttaatt tcgagagtat 120

caatatatta taaccctgaa tcggacctaa gtgtgaaaag ctatgaccat tgaatttctg 180  
gagtgcctcc gttgatcaat ttcgcgcgtc tctatatgtg agtgacctga atcagacatc 240  
cgagttaaaa gctatgacca tttaaatttc tcaagagctt gcgtagttca atttctagcg 300  
gctcgatatg cgatgtgtat gaattggaga ttcg 334

<210> 13062  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 13062

gtgcctgtat atcgatgcgc ctgaagtcga catccgagtg aagaggtatg accatttgaa 60  
tttctcgaga gcttctctatg ttttaattgtg agcgtctcga tatattatac gcctgaatcg 120  
aacctcagtg tgaagagtta tgaccatttg aatttcttta gagcatccgc tggtcattga 180  
tcagcgtctc tatatgtgat gcaccttaat cggacctccg cgtgaaaagc tatgaccatt 240  
tgaatttctc gagagcttgc gttgttcaat ttcgagcgtc tcgacatatt atgcgcccga 300  
atcggacatc catgggagaa gctatgacca tttgaa 336

<210> 13063  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13063

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taaaatgtta ctgtcgttta aatttgctta gctctccagc tttaaatttc gagcgtctcg 120  
atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180  
agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240  
agtaaaaagt tattgtcgtt tgaattntct cagagcttca acaatcaatt tcgagcgtct 300  
cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
tcagagcttc aacattcaat ttcgagcgtc tcgctatatt acgggactat atcagaca 418

<210> 13064

<211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13064

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cggatgtctg antgagttcc gtgatataat aagacgcttc aaattgaatg ttgaacctat 120
gaaccaattc caacgacaat tactatttaa tccgatgtct gaatgagtcc cggatatatat 180
tcagacgctc gaaattgaat ggtgagagct taggcanatt caaacgacca taacttttta 240
cttcgatgtc taattgaagt ccgtaatata tcgagacgct cgaaaatgaa tggatgaacct 300
atgagccaca tcanacgaca ataactcttt actcggatgg ttgaatgagt ccataatata 360
tcgagacgct cgaaattgaa tggatgaacct ctgagccaat tcaacgacca taaactttta 420
ctcggatgtc cg 432

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<210> 13065  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13065

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tgggaattat gatgagaata aaaaatttca gtaatgtgga gcagggtgtgg taggacaatg 120
ggggagagga cccaaaagtt tgtaaaataa aaatggatct gagatgtgat ctaaaaagaa 180
aaagactgag aattcaaaat tctcagttaa gccactaaga aagtacttcg agtttagtag 240
taaaagcaac ttttgttaga gatgtcacat ggaagagtgc gaagacatta ttaaaacaag 300
aattctgata atagggtatt gtattgaaag catcgtatta aatagccact tggtttgtaa 360
tgctagctag ctatctaaaa aaaatta 387

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<210> 13066  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13066

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tatgaattaa tagttcanat aataaaatta aattgaagga aattaatata tcaagattca 120  
atgataaata cttccaatgc attnttagtt taattattta ttaattnttt gaattgaaaa 180  
tagtatagtt caatttaata gatacatggt ttgtgccatg taaatattaa tattgtgaga 240  
tgttcatatg attcatgagg tgtgataaca tgctgtgttg ggattataac attatgattg 300  
agattgagtg tgtgtgataa attgagtatg tggtgaattg taagatacat gtgtattaag 360  
attntataca cattgagttg tgagttatga actgtacaat cacat 405

<210> 13067  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13067

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tagcattgct aagcaatcaa acaagagtat naccctgac attttttaac taaagaaact 120  
tgaggaaagc aaagtattnt atgtgttcag tgcacttgag aaagtcaagc tacatcaagc 180  
tagaattttt tattgtaaat taatttgacg tcataaactc gtatgtatac aaaatgaaga 240  
attanaaatg ttggtgtttc tcttagattt attgantagt atcaagtcgt tagttgtcaa 300  
tgtaaatatt acatntatca ataattatt tgtttgacaa taaaaattaa aattgttaat 360  
taaagtaaaa aaatacatat ataaact 387

<210> 13068  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13068

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gagttcatga cggcaatggt taaatgtatc aattctatta aatttgagct cgttcaatta 120  
tttcatacgt attattaata taatttctaa aataattatt ataaaaatta acgataagta 180  
tgattacatg aaagtgtata attaatatt attattgata cctagtctat tttgtcatat 240

cttcactttt aaatntgaat tgtacatcta acaatntaat acataatatt gaatcaacag 300  
tcaaacaaat aattcaacca atttatcttc tta 333

<210> 13069  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13069

agcttgcttc acgccatctc agtatgagga tcccatcgaa accttgttta aactcaccca 60  
aagcggatg gttcaacatt gntaccttcc tcgccaaaat cgcctcccat acctatcaaa 120  
aggttgtcac cggaagagat agccattcgt cgtgattgaa ggccatgctt taattgtgat 180  
gagaagttaa gttgagggca taaatgtccc tccaagttct tcctcctcat cgccgataca 240  
gatgactaac tagaagggtga tctctcttcc gatatgctgg tttcaatgga accgcaacag 300  
gctcagataa gcatacatgc cctgtctggg catttgggcg ttgaacctta cgatngtttg 360  
gacgtatcgc ggactagacc atgggtgattc taattgatgg aggaaataca cat 413

<210> 13070  
<211> 289  
<212> DNA  
<213> Glycine max

<400> 13070

tgtagctacc tcatgtactc ctctaatac tatggcatca tttctggcgc taaactgctg 60  
ggagttggag gccatcttct caattaaatt tatggcttca gcaggagtca tgtctccaag 120  
ggctccacca ctggcagcat ctatcatact tctctccata ttactgagtc cttcataaaa 180  
atattggaga agaagctggt ctgaaatctg atgggtgggg caactggcac atagtttctt 240  
aaaatctctc cagtactcat acaggctctc tccactgagt tgtctaata 289

<210> 13071  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13071



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 acaaattggt cacattcatg gtagcaacat gcctaaaggg aaccttcata tcaagatgca 120  
 aatattgtaa taactctnta aacctcctat gttcaacaaa agagaatgga agatcatgct 180  
 caataatcat catagatatc atctcatgta ccacactntg atcaatnttt ttattttctta 240  
 atctcccagc atgatcaaga ataatatctt caacatcact attagaatgc cttcaaatat 300  
 acatcacatt tcncatattg acgttgtagg ttgaagtctc attcttattg tcaccgcca 360  
 cataatcttt caaacatatt tgcatttact cctcactttt tcatcact 408

<210> 13072  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13072

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 ttatctcttc atttgatttt gaagagaacg ccatagatca atgtatacca gaagatcaat 120  
 gggaagtaaa tattgtttct tggtttggac gtggatgata ttttgcttgt ggtttatgtt 180  
 aacggtatgc tatatgagat gaaataatct ctctcaagaa ctttgatttg aggaatgggt 240  
 gagacattta tgtcatngcc ttaagatcat acaaaagatc taggtttttg agtttgctta 300  
 caggcatatt cacatagttt agagaggtta acatgaagat tgtcacaagt gtactccatt 360  
 ggaaggtatt 370

<210> 13073  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 13073

atctatgact gtacatttga tatcgttgag tgaattacga cttcattcta atcgatgaca 60  
 tgctgtgggc tatgacgact ttaggcttca tgtatagatt tgctacatga ctttagggc 120  
 gcatcgcaac catggcctca aggcgaaggt atctgggtctt ttaatcggtc acattggaga 180  
 tttaatcgat tactatatca acttttagtt ttgagcgaaa acgagtgccca attgaattga 240

ttactatggtt atta

254

<210> 13074  
<211> 181  
<212> DNA  
<213> Glycine max

<400> 13074

cgctgtatta tgccaagact tgtctaatta atgcttctca accagtattg atctcctcat 60  
tcactgcccc gtctctccat tctttcatta ttttacatga gacatcaagt cgctgatcat 120  
gtagataggt atgtactatt ataattattag acggcatcaa cctatgcttg ctatatataaa 180  
g 181

<210> 13075  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 13075

tagcttgtgt ttcaaaataa tgatttggtt aacatatgct tgctgtaaat tagagttaga 60  
aatcattaaa gaaccagcaa agggaaatgct acagacaaga atttacacag aagcataacc 120  
ttaagaaaat aaaatatattt taatgaagtt aacaaaatta caaaatatat cttttagtagta 180  
tttctaaata tgggggtgtca gattaaataa tattttactaa actttttcata aaataatgga 240  
caataaatag caaaggaaaa gcgcagacac gagacttttg ccaccaatcc ataaacatca 300  
cggattataa aaaagagact caaatcaagg ggggacgaga acacaccagg cttgtcgaac 360  
aggggcgcag agatacttac catgcacaga aacacacagc gacgcc 406

<210> 13076  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13076

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gcagaacgag tagagactct gcaagcagca aggagtagag aggccttgct gacattcaaa 120  
accatgcccc gagtgttctt ttattctttc ggtatttggc tcaacttgct agtggttgaa 180

catttattct ttcattcattc ggagaaaaat agaattctga atgattgatt tcagatttaa 240  
 ttatatgata catttgtgtg ttagagacat accactatgt ctaatgctta tgtagtacia 300  
 ctagtatact cagaaattaa tatgactaat aacatatcaa gggttcctaac taatgatgc 359

<210> 13077  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 13077

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 gctgagaatg caccgagcaa taacaaagac tgcgttcttt gaatgataaa aggggaattac 120  
 cttccatatac tgctgaagac acgctccaag tcacgggaac gagtcacga agacaagtgt 180  
 ccaacgtcga ggcggttatt actatattta tcatcatggc gaggcacgt tgatttcttc 240  
 cagctctgca aaacaagcaa ctgaatgttg aaattcaatt caagaaaaag gccacacaga 300  
 aacccttttt tcaatggcat aacgatcatc gatgacatta gcaataacgt gagggaaatga 360  
 tgattgatga ta 372

<210> 13078  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13078

actcagctgt tttcggttgg gaattaattt ttttaagtac ggagagttta ccgtagatga 60  
 ataaccacac ttataattat ggatcgatct ttgctgagt ctgatgatga gcaatttttt 120  
 tttttgaagg ggatgataag catgttaaaa tatagttggg ttatacatag aaatttgtgt 180  
 attaataatt aataataaga ttagactctt actaataatt actaatanga ttaactctt 240  
 atatttatag gttaaatagt agtttatgat tcataaactt tccacattgt ataactgtat 300  
 gtgtactaaa cacattattt caaaccttag cctgatcctt atatatttaa atgcttatta 360  
 actcatacac g 371

<210> 13079

<211> 270  
 <212> DNA  
 <213> Glycine max

<400> 13079

tttgcattgct agcttgttgt tatagccatg tttggatgag taaaacatac ccattctgtt 60  
 ctaagagggtt tgagatgatg ttagtgatgt ttatatgctg aaattgctga tggaaaactg 120  
 ttagagaaga aaggtagaac taacctaggg ttataaagtg ataattgtgat gctatgagtg 180  
 gagaaaataa gagaggctgt gatagtttga atgctaagtc tgaattctgt ggtaaatgga 240  
 tgttaaagtg atgtaatact acctagaaat 270

<210> 13080  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13080

cctcaccgcc tcattatctc atttgtgttc gatagtacac cttactttat aaccacccaa 60  
 cctcnttccg ctcacaccat tcggcttctg agccttaatg aacatcatac ggcttgaact 120  
 agcttttgtc ggggtgcaaaa aatacaatgt ggtccgctag gtttttctgc gagccaaccg 180  
 agtgtgttcg gcgacattgc atgttcccat gcactcagcc atgaaaacat tatcccacaa 240  
 tcgaagagaa aaaaaaaaaac atataatgac ctgatacttg gatcggaaga taatgctggg 300  
 ttgacgtctg ccattaaaaa agaccgatcg aggtctaaaa ataaaagaat caccagatga 360  
 cgccgatcga gcattttcta attgacatca tccaaatatt attcagggat aggatagaaa 420  
 aacagtagct gataccatgc gttatgtaat cccgactgac atttttcagc cgacagtgca 480  
 caagatgtct ttacaacg 498

<210> 13081  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13081

agcttcaagt ttngttcct aagcttggaa ttgcatttgg gcacctatct tgaatctcct 60

atgctgtacc tacatataag aaacagtccc actctcccaa ttntacgaaa tcatattcat 120  
 acatcattgg ggcatttcac cgagcacttg gtgagcgcat gtttgaacat aaattgcaag 180  
 aggatgggga caatgtggta tgccccattg cttcagaata cagcataagc ctaaggcctt 240  
 cttattcana tcttcaactc aagaaaacaa gcacaaaaac aaacaaaaac tgccccacan 300  
 atataagcac attctcaciaa ttnggagcac caaaagatga agaaaatata ccaatgggaa 360  
 gctaaaaaca tcaagaattg aatacttact ttgtggagtg aataataaca ccaaaaat 418

<210> 13082  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13082

nntgaaagtg attcctgctg atgtatgtga acttgganat ggttgataca agttntaana 60  
 tattttccta agccctgggtg attaggttga gtcatnctca agttngactt ttgtttcatt 120  
 ccaatgaaaa tggtagaaag tacctatcat tacataacct aactagtagt aacttggggtt 180  
 ctcaactctca cgttnttttc ctttcatcat ttgaatttcg aaaattactc ccatactaaa 240  
 ttganggcgt gccctagcac tacaagaaaa tttgtgcttt gtgattagtt ggtcatgccc 300  
 ttcaaatccg atagggcgat aggggtactc ttaatttgag tatntatgta attataatca 360  
 tacttaatgc ataattaaat tataangtaa tatcataatt ataatcn 407

<210> 13083  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13083

agcttgatat atcttangca actgctagag atgttggttat tgcttcaaga ctacacacgt 60  
 gagcctactt agaggtaagg gattagttta tcgtaattgg ggtagagtg aacatgtgta 120  
 ggaatcctta gaggatcana ttngggttaa ttttgggggtt caattgatgc cttgatacga 180  
 attggatggt ttaattaaagt gtttggctct gaatgttaga aacctagaaa attangaatt 240  
 cttgattctt gcatgttttc ttgaaattga ttaaagggtt tgttcccat gatgtgatca 300

catgttctat atatatatat atatatatat atatataatg gatgagaagt gataatgtgt 360  
tagtgagaag gtgttatgat acatgtcttg tgaacagggtg tgggactata cagttctcga 420  
t 421

<210> 13084  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13084

agtgacacta tgatactcag cttctattct atntaganat tcatgaaggt gttataatgt 60  
ctganatcta tgggattaag atggtcattg accaatccct attntatgat ttaacaaaat 120  
tgcctagtga aggtgtacct tttgagggtg cactgattga tgaatggaaa ttcgatttct 180  
ctgtgcatga tgcccgccgg ttggtttgca ccaaccaagc ggatatgacc ggaaggcttc 240  
ttgccgggttc attggctttt gaaatccgca tctccatta cttatagtt cacatattgc 300  
ttcctagatc ttcaaacctt gcccagggtt ctgaagaaga tctcattgtc atgtgggcct 360  
ttcataaagg tttacanatt gattgngcac atcttgtag atatcgcatg cat 413

<210> 13085  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13085

agcttctcgt gatcttgtgt catggtcata ttgagacatg tgtgtggtcc accccattgt 60  
gtgactctcc atgaatcagt ttttttagat aaaattgccc tcatatagaa taggcaagga 120  
cattgcgctt ttattcaagc aacaaacaac atacctgttc gatttgcttt caacaacttt 180  
gaaagtttga tgcaccttca taacatatta ttttagtgca ttttttaccg catctttggt 240  
atcaaaatcc atgccaacat ataattcttg tccaacatta aaactcgatg gcatctccaa 300  
accacaaatg tcttctcat caagatgact ccagttgata ttgttataat gcanagcatc 360  
attccaaaat ggattntcaa ttcttgtac acctaatagt taaaaaaatt caaatcatc 420  
ttatt 425

<210> 13086  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13086

agagacgtgg cgtttaacga gaaaggcatg aaggattggt cttcanagtc tcaataggag 60  
 tcgatggtga tcgctgacaa ccatgaagaa nattatgaaa ggctactaga tccaacacct 120  
 gatgagccat aatcatccag gaggccatag aggaatcctc aactctcagc tagattgcaa 180  
 gattatgtca tgtttaatga caaagataca tctaatagaag agattatcaa ttttacttta 240  
 tttgcagact gtgatccagt tattttttgaa gaagcctcaa gtgacgagaa ttggagaaag 300  
 gcaatggatg atgagattcg tgctattgag aagaatgaca catgtgagtt ggtggacttg 360  
 acaacaaac 369

<210> 13087  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13087

agcttctata taagggttcgt tcctaatttc tctacaattg catcacctct caatgagcta 60  
 gtgaagaaga atgtggcatt taactgggggt gaaaaacaag agcaagcctt tgctttgctt 120  
 atagaagagc ttactaaggc acctgttcta gctcttccta actttttctaa aacttttgag 180  
 ctagaatgtg atgcctcttg agtgggagtt ggagctgttt tgttgcaagg tgggcaccct 240  
 attgcttatt ttagtgaaaa acttcatggt gcgaccctta actacccac ctatgataaa 300  
 gagctttatg ccttaataag agcactccga acttggaac attaccttgt ntccaagggga 360  
 attgtcattc atagtgatca acaatcactt aag 393

<210> 13088  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13088

tgaatcggac ctcagtgtan aaagttatga ccatttgaat ntctcgggag cttccgttgt 60  
tcaatttcga gcgtctgtat atgtgatacg cctgaatcga acatccgtgt ganaagttat 120  
gaccatntga atntctcgaa agcttccttg gttcaattcc gagcatctcg acatattgtg 180  
tgcccgaatc tgaccttcgt gtgaaaagtt atgaccattt gaatttctcg agagc 235

<210> 13089  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13089

agcttatgat ctgtatatta tgtctaagta taagccgagt ttttgacctc tacggtacac 60  
aagccctcca agctctaagt tcagtatgaa cgaaagtgat taagatattt gtaatataag 120  
tttatttctt gtacgataca caaatataag cacacaaaaa gtaacatttt ttaggggtgtt 180  
acactattaa ctatnggggc aaatgcatgc ttggctttct acttcaaact aatttacctt 240  
tttttttcct tcttgtttgt tccagctgta atggctctaa aaaaatgaaa gtaataaaaa 300  
ataattattt ataaattttg aaaatntaaa ataaaaata tctttaaaat tganaacaaa 360  
aaataaaaaat agactttttt tcttaaatta aacaaatcgt ttaatcacta c 411

<210> 13090  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13090

attttgcatt gatcattact gagctatatg gtggatccat tatcatacta tattataatt 60  
tcgcccagct tgatgatggg gattaaacc atttgagcat taaaataact gacacttaat 120  
gagggtccat acctttcctt tntaccatat tgcattgac attattgacg tatatgttag 180  
acacgtacat tatcataata taagtataat caagaaaaac catagacatc atgtattgga 240  
atacctcatg atcaaattta aattgaactt acactagttt atgattggaa aatgtactgg 300  
aattgggtga att 313



<210> 13091  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13091

agcttgtaac tcgttaatcc atcaaaacat tntttattca tatatgctcg tccaacttcc 60  
 tgatacactn tcaatagaat atgcaagccg ttgtattgcg atatttgang ttttcatagc 120  
 acaggagttt ttatattcaa atcaatctaa catanaaata agaaatcatt ataaaaaact 180  
 gagaattgaa ctacattgat tttttgttat ttttttggat gatctttctc ttacattaat 240  
 cattntggnt taatttatta tttatgtttt tgaaattgaa ccaaaccgta atattgttat 300  
 taacaactcg attattttaa tattctatgc atatatcatt tgaaatttat aatatttgta 360  
 gtgttggtga tacaatataa 380

<210> 13092  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13092

cgcgtattca taaattaaag agaaacatta tctnccttac acgacggcct ttgccgacta 60  
 agctcagtca acagaaccct ttctctcttt ctctttctct ctctctctct ctctcttctc 120  
 tgagggccaa gagtctgcca ttgacggtgt ggaaggaaga atttttcatt ttttccccct 180  
 ttgacggatt agtttctctt ttcttagaaa aatattattt atataatcaa aaataataga 240  
 atatttaata tatgtatatt agttcatg 268

<210> 13093  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13093

agcttggcca tatgaaggat attctcttgc atgctgagtt agtgcttgga attgcaactg 60  
 atcgcagaga ggatgaaggg ccacaacttc taatttatcg gtttcttggt gatgatcttg 120

acagtatggc gagtgatgct atgtggactg atgctaattgg cgttggtgtg ggttgtgagg 180  
attctaaaca gagaaaggag ctaaaggggt ttctccttga ttgtgttata gaatatctag 240  
aatcaaattg ctgccaatat tttaaactctg gatccaaggc atggacaaaag ctgcccttat 300  
gcatganagc tgagatgttg gctcaagagg tgaagaggga gatcaatgag tggttatcta 360  
tggttgggat ggtacctgat gaaattatag aatgggaaat gag 403

<210> 13094  
<211> 275  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13094

agatatgtta ctccgcaacc aaatttatgt attatatcag acaggggaac cagtttgcta 60  
gcagctttac aatccgaacg tgttggttg aatgaaccag atgtttcgtc tgtgtattgc 120  
attccccaca ttgcatcaaa tttcaacaaa cagtttaaaa atggtgactt aaaaaacaa 180  
gtaatcaata tgggtatggt tcttcctatt tcatgcatca tattctggct ttattacatg 240  
tntactaata gtaccgttgg atagagaaat ttaat 275

<210> 13095  
<211> 705  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13095

cgtgcatcac tcacaactcg cacaattcgc cgacagtgac acgtcatngc cgttctenta 60  
acctcctaga gagagagatt gagacttgag gcctctggaa acctagcac agacacggcg 120  
taccctgga gcctccatag acgatcagcg agcaagacat taacgaggtg actggcttat 180  
atagagcatg actgaagcac aaccacattg cggaccatac atgcaccgcc atctgggtccg 240  
agacggacac cactcacaaa aagacatgca agaccctaga tctagctgat ctagccaca 300  
caactcgcat gacctgtcg tagatggagc taatccgtgc aacagaccag taaagtatgc 360  
tagctaccga cgaggaacgc taatgaccgt gtacgcgcat atctagacag gcgcgatcct 420  
cgtagggaac aagacagatc cgcagcctcg acgattatca agcggctgtg ctgccacaa 480

cgtaactag cgacgtgtat tgcacgcctt ggacatcaac ctacgacatc ggactatctc 540  
tctctctaca gagcattgac actcacacac acagctaatt gcggtgctca agtgagcttg 600  
accacacatg cgtgcgtaac atagtgtgct atgtcaaacg cagcagagct tcacaccgat 660  
atanagcgac agacactatg accacaccgc gccacgtgac gtccg 705

<210> 13096  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 13096

tttgaatgaa gcctttgaca tatctcctag attgcaatct taagatataa ggatgagatc 60  
tacgactcaa tgtcagtcag ataatttaaa gatttttttg aataatgttg atatcaagat 120  
aatgatgaaa tttgaactca atgtgtgtaa agataaaatt gtatctcttg gcgtattatt 180  
aatcttttga atattttatac aagagggtgg accttgacat aaatgcgaag agtgactctg 240  
gtcatttact attagtagac taatcacata ttgactctaa cctatatgac ttattggcga 300  
tgacctttga actg 314

<210> 13097  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13097

tagcttgtga ctcttggcaa tttctttaaa actagtcaact taaaaagttg tgacttttga 60  
aagaatcttc agaaacaagt cacttgaaga attgtgactt ttggaaatgt atttttcgaa 120  
atcagttact ggtaatcgat taccattaag gtgtaatcga ttacacatca acatatgtga 180  
ctcttcattn tgaattntgc aaattaaaac gtttagaagc tctggtaatc gattacaagt 240  
attgtgtaat cgattacata agtttgaaat actttaaaat tgtttaaata taagttttta 300  
ctcttgaaat ttgaaatctt aacattctaa aacactggta attgattact accttctggg 360  
actcgattac cagagagaaa aactcctntgg taatgatt 398

<210> 13098  
<211> 382

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13098

tgaagaggat gctntaatgg agggaaagat agagagaagg ggggagcacg aaattgaatg 60  
aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagactnt cattcatcan 120  
agttacaaca agtgttacac atgtttctat ttatagacta ggtagcctcc ttgagaagct 180  
ttcttgagaa aacttccttg agaagcttct ttgagaatac ttccttgaga agctagagct 240  
tagctacaca caccctcta ataactaagc tcacctcctt gaggagcttc cttgaaaaga 300  
tcctaaagaa gctagagctt atctacacac acctctctaa tagctaagct acaccccatg 360  
acaaaatata tgaaaatata aa 382

<210> 13099  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13099

agctttcttc tggataaact ccacggttgt agagaatgct gatcaaattc ccatattaaa 60  
atacttataa atatcacaac ttttcagcc acatgcataa ttgcaatgca aaaaataaga 120  
cccataataa attaaaaaaaa taaaaaatgc aggacacaag gatcaaacct gttggcagca 180  
tattctgatt tgaanaaatc accaaataaa aacanaaatc aggcanaagt tcacaaaaaa 240  
atacacaggt atgcaaaaaa tgatagaaat cggaggaaag cgagataaga gaagagggat 300  
aggaataccg aagaactc 318

<210> 13100  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13100

tactgaagtt atcaccaatt agatggaaca tctcatgana tatatnaatt cttttgggtg 60  
gaaaaacgga gcaatagaag agttacatgt ggataacaag cagagtaaag actcacgcta 120

caccatgaat gggaaactaa gtttaaaata tatttttggt ctcactttgt agcatnttct 180  
 tttattgtn tgtaagcaaa aagaatcaaa caatgaaaat ctattccaca acatatccca 240  
 gcatgctggt gcctgatgca gcacgaaatg tgaggcaaca aattcaagaa ttacatggca 300  
 nagctagaag tcagtaactg atgccccnac aacattatga atgcccccat tcatgtagca 360  
 tttgaagcta atgtttcat 379

<210> 13101  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 13101

agcttcattg ctaagggaca ttctgaaat agttgttttg cattatcaac aatagctcca 60  
 caatgataac aaatagaggc aaaagaaaaa ataaacccta cattcaaatt atcatccgta 120  
 gatgaacaat catgaatcca tctccaaaac aaaaaggatt ttgatggcga gattcctttt 180  
 ttacgtaaga tcttatgcca agataatgat tgcaagttag tttggaagaa agataaact 240  
 cctttaaaag tcatgtttcc taaatttgag gggatccaca tgggtttatc tatgatctcc 300  
 tctaaaggaa taataaaaaa tctaattgtc tccgctagct aggaaaagat agtgcgaaact 360  
 cttgagggaa gcacccacat ttattcctat ttaagccctt caccat 406

<210> 13102  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13102

atgaacagga ctgctactgt gtaagaagtg tgtcgggttg ggagcatacc cagatgaatc 60  
 ccttttgaan agcggtcgat gaccacaaga atggtggtat agccacgaaa tgcgggtaat 120  
 ccagttatga agtcgagaga caagtcctcc catggccgac agggaaactgg taccgagcat 180  
 aatagacatg tggccttctt agtttcatat ttcgtgtgtt gacagtcgac acatgaagca 240  
 tattcagtgt gctcatcgag gtgggtcaata atagcttgtc agaactgagc atattctaaa 300  
 tcttgagcca actgggcctt taattcctcc ag 332

<210> 13103  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13103

aactgagggg ctagctgggc atttgtctgc tagaggaatt atagcagcta ctgctatctg 60  
 aacgtgctca aacgtctcac ttaacattaa tagcacgttc actactgagc caaaacaaat 120  
 tcgaccgttg cttcacacgt ccctctacat tcctcaatca aacttatatt ntcgtggtaa 180  
 tctcaatttc agcatacccc aacagctctc agagatttac gaaatcattc caaacgctct 240  
 gcttctccat ggctacctca ccaaagaaa cttcagctcc ttgttcaccc tctgtaccat 300  
 catctccatc atccaccana gcaccatcaa accaggaacg acctgaattc aatatccagc 360  
 ccatacagat gattcctggg c 381

<210> 13104  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13104

tatgcatgtg aattatgacg catcatcaag attcaagcca aggctattgt gcaagcaatc 60  
 aatggggcaa aacacaccaa atgattatga tgatggatgg ctcanattct caciaaggta 120  
 aactcatcac tttcaaattg agctntcaaa actatcatga catgtagaga agaatcaagg 180  
 atttcaagtc acaaaatgtc aagaactggt atnttcaaaa caattacca tttcttgaac 240  
 atatcctata attcaaagaa gaacatgcaa attcgtacgt gcacacaaca ttgacccaaa 300  
 atattaaact gaatatccga cgaaactaac aacattaaca aattaacaca actaacaat 360  
 taacaaaacc aacattacta gcataaccaa agaacacttc ccccatact taaacaacac 420  
 attgtccttc at 432

<210> 13105  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13105

cggatgatcg cttcagtctt cnggtatccg tgcacanca ngcanaagcn cctncactct 60  
caaggggacgt tcatatatgt gctatatant tcaggtanat gntntatggt cgctatgngc 120  
cacaacagaa ctgaggcgta tgtctaaggt ggtaattcag acacctatgt gaactcattc 180  
accaatgcta tatcatacac atgggttggt gtctcgacac tcatactatc taagaggatg 240  
tattcccgtg cgttatacct caaagaagcc tacaatgggt gagcaaaca agacatatca 300  
cgctcacgtc gaccggactg aggaaagaca acatatgttc tcataacgat ttaataaaac 360  
cggactggaa cacatccagg gcatacacag aataacgtcg atctgacgta gaagataaac 420  
aactgaggca attagcaacc tgattattag agatctgtac aggagcattg ctagcagaca 480  
ttcgtagtta aaactcacc gcgtgcagg tgtctaacga gcaggtcata tatctatgaa 540  
tacactggtn tggcgagttc gctccc 567

<210> 13106

<211> 256

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13106

atcatcgaga tcttcatgat anacaataga aactagtaat ccttgacttg attcgatcct 60  
cgataatgca atgcataaca tgccatggct aaagacagga tttggcagat aaagttacac 120  
catacaaggt gagacgcctt gatacttggt aatagacatt gcatgagata acatgattgg 180  
agatagtctt ctcaaaagat taagaggcca cggtgattga gaacgcaaca ttgacattct 240  
tgggatgtaa acatta 256

<210> 13107

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13107

gcttcctcgg agccatttcc tgcgagaaca aacatntaca agttatgttt actaggtttt 60  
gcatatctga acgcacaana agtcatgcta atccctctga tnttagaacg aactcacgta 120

atctatgtat gcacacgct atgtgtggaa tatectacta tttatatcaa catagaggcc 180  
atccaacaga ttctaattgt catacatata tatgcattag aaaagaacac acattctcac 240  
gctcaaagca ttgctgcaaa gttcacactt aattatatcc taaacattta ctattacaga 300  
ctacctacac atatctgaaa tatatatcat aaaaaatcta ttggttctct ctcatttata 360  
tatatgcata ttggaaagct attacattct gccacactgg ca 402

<210> 13108  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13108

tgtccgcaca agaaanaata ctaaaagga ttttgggtca atacctcagt ctgtcttacc 60  
aaggaaaatg gatcattttt aagggtcaac gccttaaaat gactcacctt gcaagtaaaa 120  
agaatcgctt gattcacctt taagaaagaa ctacgtaggt ctgatttcct cttcgatgga 180  
gggtatgtac gagcaagagc cccgcttttg tcgacctcaa aataaaaaag aaataaaagt 240  
ttaggtacac aatttcacac aattctaaga taaggctggt gttctttggg acaaactgga 300  
gaggtgctta tacctttctc aaatgtacat acgactcctg aatctggaat attcttcattg 360  
accgantctc ttcggtcttt tcgacatttt ccacaaataa ac 402

<210> 13109  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13109

tgaaagccta gctatgtcat gcgaatatcc ttgtcaaaga agtggagttg aagaaagagt 60  
atattagaat atagagagaa aagtgtgtaa taagatgggt gatgtgatag agaaagataa 120  
gatagaacaa tacgtactat agaaaattgt tgtacaaatc atgtaactcc acaggaaatg 180  
ataatgtaaa attgagaaag ataacagtga agaagtataa catgaagagg aatgattcac 240  
aaactaactt ttactctaaa catntcattg ccattcatta ttgttctctg tctctctggt 300  
tctattacta gtgtgtctag ataacaagtg agagaattga ttctaatacca taagatcatg 360



gtgacacccat gaataagctg aagctagtat gtgttgcttc tctcttaaca tga 413

<210> 13110  
<211> 550  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13110

cgctgcccac gatcctatcg attggtcgaa ccttaganta ctcaagcttc tgtacaacca 60  
ttctcatgta gctagcatac anagtccagc cgactctggn cagtgtagat tgtnctgcaa 120  
tgaccaagag ggatgatgtt gtattctgtg actgctctaa tacattgcgc tttgtcatct 180  
aaagtcatgc caacctccac tataccgact ggtgggttata catttgtgta ctgatgaacg 240  
aaatggtgtc gatcaatgaa gtgcggtacg tggtcacatg acaagtctac tggacaccta 300  
tgggtcggat attgccacgg cggagatgga ggtagcattg gctaccaaca ccctcgtcat 360  
acggatggtc aatcgtttgg ctgactgatg tgatccaaga acctgtgatc cttcatactg 420  
actgacatca tccatcgttt tatcatgaca tcgacttatg tgatctntga tagcactgcg 480  
atgtccatct tcgtttgatg acacgtatgg gaacntagag aacgtggcct ataggggatg 540  
agagtagctn 550

<210> 13111  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13111

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ctttaagctt atgcacggaa aatgtaatta tgaaattgag atgcccgaag aaacaccatt 120  
tcctagttaa ccatgcatta ngtaccatgt tcaattatct tgtttttaag tgatacgggt 180  
ttatgatccc aacatgggtg gctcctaaca catgaaacta agaatgtagt gtgaaagtcc 240  
acgcttcccc cttctttggt tntagtttgt agaggataac gcaaggatga gcaaacatga 300  
aaacaaatgg tatgcaatct tgcagatcan aaagtttgtt gaacgcatat gcatgatgat 360  
gccatgactc atgcaaaatg tgaggctgga tatgataacg gacanatgca cgatatgtcc 420

attatgatag tatgaagaga tgctta

446

<210> 13112

<211> 490

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13112

acactatcaa actcagcttc ataaagtntc cacttctccg tgttaccggc anagatatta 60

atntagtttag cgggtaacca cattatgcaa ttctaagtgt atttttgggg aaaaaatggt 120

cttcttttaa atttaatat attccaaaa taaattcaat taaacacata ttaaataataa 180

attctcatac acgagtgaga aataacattc atgttcttgt tccccctttt atctatatgt 240

cgtaactatg acttagccgc acatgcaaca gataaggaag agcaacgtca tgccttcact 300

tttcaataat gcttggatat agaaggaata aaaaagtgag aaatattcct gttttggagg 360

ggtggagggtt tcacctgtga taggaaatan gacacagaac aataaataag aaatataatg 420

aattttgtat tattttatta aagagaaata ttataaaatt atatttgtaa attatttgggt 480

tcggataaaa 490

<210> 13113

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13113

tctcaaaggg catggttatt tctagtntcc taacaatatc taagaatctc accaaatatc 60

tgttcttctc cttcttggat ggtaccacaa gatatggtac ttccgcacct tcattcacag 120

ctttttctct ctttttctct ctagcttggt cacttctact cctctcttca ctcttattat 180

tatcatcttt ttcatttctt atcattacat aatactttat cttggccatt taatatcttt 240

ttcttgacca ttattcgctc ttcttttgcc taatttcctt aacctttcac atcatctttc 300

ttatcatcaa tacctctatt ttcagcatct atcttcttgg gcacgacaac actgacctca 360

tcctccgctt ccacaaacct ttaacttctt gtcttcac 398

<210> 13114

<211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13114

ntgagccaat tcanacgaca ataactttnt actcagatgt tttatatatt ctctgtgatat 60  
 aacgagacgc tcgaaattga atgtagaagc tctgagctaa ttcaaacgac aataacattt 120  
 tactcggatg gctgattgac tcctgtcata tatcgagacg ctcgagattg aatgctgtag 180  
 ctctgatcgc attcagacga cgataactgg ttacacggat gtgtgattga gtcccgtgat 240  
 atatcgaaac gctcgagatt gaatgtgtga tctctgagcc aatccgcacg act 293

<210> 13115  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<400> 13115

ctcggatgtc cgagtcgga gcataatata tcgatttgcg tcgttttagat catcggaagc 60  
 tctagagaga ttcagatggc cataactttc cacatggatg tctgaataag acgcgcaata 120  
 tatcatgatg ttcgaacttg aacaacggaa gctctccagc aatactgata gtcataactt 180  
 tatectcgga gggacgattc atgcgcagaa tatat 215

<210> 13116  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13116

ntctactatg ttgtcacata agtctgcaat gcaatcagat ntgaaaatat tatgaanagt 60  
 gaatagtaga tcgagtgaat cttanactgt ataaactagc tgattgocata gaaaactaca 120  
 acaaagaaag caaatatata atcctggcag gtcattgaaaa cttgatcttg caacaaattt 180  
 gagaaaaagt aaatagctat aatcatttga tgaagcacta gaaaatttaa cttgcttgag 240  
 aatcatgaca cattaacttg ctggaaaatc atgacacatt aacttgctnt ttagacacac 300  
 atcttggttt gcagtgcaat ataatacaaga gcctaattat aaataattc 349

<210> 13117  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13117

cgcttgtgaa gcttctatgg aggctggatc tttgagcttc aatgagggtc ttcaatggcg 60  
 attntccacc atggagatgc agcgggaaggc aaaggagaag atgagagggg aggcaccatc 120  
 cactagggaa taagccatgg aagaaggagc ttctccacca agaatgtgcc ttggataaga 180  
 agcttgaaga ggatgctcta atggaggaaa aaaaagagag aaggggggag cacggaattg 240  
 aaggaattaa agatggagag aagtggaact ttgaagtgtg tctcataaga ctttcattca 300  
 tgaatattac aacaacgtgt acacatgctt ctatatatag actaggtagc ttccttgaga 360  
 agctttcttg agaaaacttc cttgagaagc ttctatgaga caacctcctt gggaagctag 420  
 agcttaact 429

<210> 13118  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 13118

acagtccaca agcaccattc tcttcagtag agaactaacc aagtatgttt gcacgattat 60  
 caaaagagag agtggagaag ctttcaatta ccgacttggg gtctggtaat ggcaggcctc 120  
 cactccccga ggagagagat tccaaattgg agccattgtt gtctaaagat cattgaagtc 180  
 tactttgtat cataaggtaa aaagtgtatt tagccattct ttcagaaaaa ataaaatgaa 240  
 taggttaaca gtaaaccggg tgtaatcaag ccaacgttaa acaatagctt gtgtatatatt 300  
 gattggccgg ttgctgtaaa attaaatgaa cttttaagaa tggtttatta atgaaatctc 360  
 ctggctgctg gtatccctaa tacaaca 387

<210> 13119  
 <211> 85  
 <212> DNA  
 <213> Glycine max

<400> 13119

tccattatgt atttgagtaa ttagtaatat atctgtttat ggttacgcta tcttaaacad 60  
 ttccatggat taatgatgaa atatg 85

<210> 13120  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 13120

gactcatcac gtcattctaat aaccttggcg tggatccaag tgcgccgac atccatgtgc 60  
 atactcatgt cttgggtggca tactcaccga tgcttatttc tctatgaaat tcatcataac 120  
 taagaaaaca ccaaggcgcc cctataacag tcgctcccta acaatggcta atgaagatgg 180  
 cgtgtgtgaa caaatcaaag ccaatctatc ggtcttaaaa catcaaat 228

<210> 13121  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13121

ntgagccaca atcctgactc accatanacc ttgacgccag gtgagaatgt caatccttac 60  
 cctcggaagc aaaaaagaat agaggggaaa tttccaatca aagaataaga gaatgagaat 120  
 ttccaatgaa agcaaaaaaa gaaaagaagg aaaattcccc aatcaaagag tgggagaaag 180  
 cacaaaaaga taagatagga aattcccaat caaagaatgg gagaaagcaa aaagaaaaga 240  
 tagataattc ccaatcaaag aatgggagaa agaaacaaag agaacagaag gaaagaaagc 300  
 tcctgatcaa ggatcgaaag aaaacagaag atatgtgcag agagggtcttt ggaccggacg 360  
 atatctgaac aatacagaat tgtcaccaa tgaacaaaga aggaaggaaa ggaaaccacg 420  
 acctaaaatg gtcttctccc ttgga 445

<210> 13122  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13122

tcaggttget cattccagat ngctgcanag aaggacagag atctgtattg tgatctattc 60  
aagaacatag accacagact cttgcaacag gtgtagatct cttattcatg gcaagctgag 120  
ttactagggtt gaccaaggca tcaagttttc cctcaagcct tttattttca atagatgaag 180  
atgaattcctt ggccacctca tggactcctc taaggacaat agcatcattt cttgactga 240  
atagttggga gttggaagcc atcttctcaa tcaaattcct agcctcagca agagtcatat 300  
caccaagagc tccatcactg gcagcatcaa tcatactcct ctccatgttg ctaagtcctt 360  
catagaaata ttgaagaatg agttgctcag aaatctggtg 400

<210> 13123  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13123

ntacttcaat atgttccana tcattaagaa tcttggagat atcatccaat tgttcagagg 60  
ctgctcttga ctctgctatc ttgaaggtgc agttgttget tcaagcatag ccgatttgca 120  
aaggactttg tcatatacaa tgagtccagt ttcaaccaca ttgaggcttc tgtcttttct 180  
cttgcaactt ctcttaaagc tctatctcca acgcatataa tgattgcact tctggctcta 240  
tcaatcatct ttgattgctc ctttgagctt agagatatag acatctattc ttctccttta 300  
agagcttctg cacagtcatg ttgaatcaag attgcttaca tcttgattct ccataacctg 360  
aagtcattt 369

<210> 13124  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13124

cgtaccccag tcatccataa acctatntgg aacattagac attgtcatac tcctaatttc 60  
gccggagatt attatntgat gatatacaac ctttgattgg ccgcttcaag atacttggca 120  
ccctttgttg cacaatatgt gaagtccga gatgtgccga aaatcanaag gaagcaggct 180  
tacgcgatcc gtgaaaatat cgtaatgtga cagaaatcca aaggaagtgt ttttcgcaat 240

ccgtgagtta tcgtaacttc ttcgaaagct aaacaagagt aaatacataa tccgtaaaga 300  
 ttcgtaacct tgcggaaaga aaataagtat cggtactaaa ttcgtaaagn ttcgtaacgt 360  
 tacggaaaaa gaattacaaa 380

<210> 13125  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13125

ntaagagata ccattaanac taaagtagtt cctaaacaat tatcaattgt tgaagcttcg 60  
 ccgagtgtcc tcattgaata acctttattc aaacctttca aagttagtga taatgctaaa 120  
 cgaacaatta tggaacttag agaaactaaa tccttaattg aaggcgtatg tgacaatcat 180  
 agcgaattac taaacaagat tagtagtttg cttaaagtca ttccagatac tccccagct 240  
 tcggaaaata cttgcaaaat ggtcacaaaa agtacctccg aattaattaa tgttattaat 300  
 gaagatagtg accaaaactt agattacacg actgatatag gatcagtgtc ataaaagact 360  
 ataaatccat ttaactccta acact 385

<210> 13126  
 <211> 96  
 <212> DNA  
 <213> Glycine max

<400> 13126

caatggctca tacctcacat aggtcatcaa ccattccttc ttatcttcaa tacgggtgctc 60  
 acctatcaag cgcgagcagt tataccgact cgact 96

<210> 13127  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13127

tctagtcgtc catagacctc ctcataggta ctgttcagca nacgttgat ctgtgcattc 60  
 atcgcattcca gtaacagacg ttgaacgcgc tcctactgat gatactcgtc accaccacca 120

cctgctccag ccataattca acaggaaaaa aaatgtgcaa taaaaattat taagggtttca 180  
 agacctcaca acactctact cacgtgttta actcttagat ggtagtacac ttgtgtttta 240  
 tgctctcaat aagcttttgt gtaatgtatt cccctcttgcc ttttaccact cgtgtttcct 300  
 cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360  
 aatataatga tcacaaacag atttgatttg ngataacaac ttggacttng atttgataat 420  
 aatatatt 428

<210> 13128  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13128

agggtggtag tatggctggt ggtggtctgg tatatgtggt tgcacatata tgccattatc 60  
 tntaatgata ataagcgaag tgtcaagggt gttgcaaagt ttttcaagta cagggccttg 120  
 tcatggctaa tggaaaaagt ggttaaaggc attggggcat cattctacga atgctgaatt 180  
 gagtttgccc attgtatgcc actgtcattt atattctgca aactatggac ggtaagttga 240  
 tgctaggggg ttataactgt gactgaacgg cggaagctat gttgacttaa tttcgggcaa 300  
 taattcttgt atttagtatt aacgggatgt ttaaattgtt ggctatgaag cacgaacatg 360  
 ccgctgaagt gccgcgttcc gcgtc 385

<210> 13129  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13129

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 tcanagaatg agttcaagat gttcaagatt gaatcaagaa catttcaagg ttcaagagga 120  
 aattagattt caagaatcaa gaatcaagat tcaaggttca agcttccaag aataagaatc 180  
 actattcaag actcaagatt caagaatcaa gagaagatat tctcnagatc agtatgaaac 240  
 agttttttca gatcctgact agcacgtgca ttcttctcca aagctatcta ccacagagtc 300



tgtactctct ggtgactgtg accagattat tgtgatcaa

339

<210> 13130  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 13130

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tcaatttcga gcgctctgtat atgtgatacg cctgaatcga acatccgtgt gaaaagttat 120  
gaccatttga atgtctcgaa agcttgcttg gttcaattcc gagcatctcg acatattgtg 180  
tgcccgaatc tgaccatcgt gtgaaaagtt atgaccattt gaatttctcg agagcttcca 240  
atgtgtagtt tcgagcgact cgatatatta tacgcatgaa tcggaccta gtgtaaaaag 300  
ttatgac 307

<210> 13131  
<211> 478  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13131

ntatatctat ggtaaagcag aagaggatat acccttacgg gaatcaatat taggaaatat 60  
caaatcttag ttntgaataa taatgagaat gaagagagga cattgatgat agagatgaaa 120  
gaatgaatac acacttgcaa ctgcgcatag gaccaatgac tagaggttgt gactccttga 180  
agctgtgcga tgctcttttc tgtacactcc aacgtaacac tttcaaacc tacattctat 240  
tatatttatt tcgttataaa agagagagac acttctttta agatggtttt cataaccgtc 300  
ttagaatggg agtttctaag gcagttcttg caaaaccgtc ttagaataat tgcatttatt 360  
tacaaaaatg tcaccgtgtg tctttctaga atgattctct atcaaccgac ttataatcaa 420  
cgtcgtaaaa atagctttct ctagtagtga atgcatggtg cttaagcgac ttaagtga 478

<210> 13132  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13132

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ggggagaagt gaagaagaaa agggttcagc cncttcggca cttctctctc tctctcgaaa 60
ttactgagga aaattagtgg catgaagaan atccaagccg aggcgcttcc gtaacgtttc 120
cgtgagtaat tacgcgaaga ttctcgaccg ttcttcaaga ttcacgttcc gttcttcggt 180
ttcttcagtc ttcaacgggt aagtacctca aaccgagctt ttcaattcat tctatgtacc 240
cgtggtggtc cacattntgt atcatgtatt tttattctcg ttttcattta cttttaatac 300
ccncttttaa cgtgcttaag ccatttatct aagtcatttc tcgcctaata tnaaaataaa 360
at 362

```

<210> 13133  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13133

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gccttgcaac aagtcctagg gaagtagaca cggagatgga caagaaaatc cgcagtattg 120
tgagtagcat tttaaaagac gcctctgttc ctgaagctga tgaagatggt ccaacatctt 180
ccaccccgaa tgtttctgtg cctgatgttg agaaagatgt tocaacatct tccggcccaa 240
atgctgaagc cctcccttca ccagtgagc aggaatcaac agaagaagag gatcaagcct 300
cagaggagac ccctgcacca agggcaccag aatctgtctc aggtaacctc attgacttgg 360
aagaagtcga atctgatg 378

```

<210> 13134  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13134

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tgtccaatgg cagttaacaa agtaccacaa tattacgtcg caacttggtt gtatggataa 120
ttactatgat tatgtccttc aattctacac aatgaagatt gcttaggcac atctggaatt 180

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gattcgtcca tctcattatg catacaacta gagactaacc ttttcactat gactcatcaa 240  
tctgaagaat caaacataaa atatggactc aaatatgaag accattttatc ttcgtttcca 300  
acggaatgaa actgatgcta ataaactnta tgaatgttgt tcaacctgta tacaggggtca 360  
acacaatcat cataatttat atggcgagaa acacctgccg caattgcat 409

<210> 13135  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 13135

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tcaacacaag attatataac taaagtttac ataataaatc ataagtctca acagaatata 120  
agacaatcat ccaaaagtta aaaccaaata taatccaagc ataaataagt cataaccaaa 180  
tataattcaa gcataaaaga ctaagtgcc aattatcgaaa gataacaaaa gttcagaaaa 240  
tgataccgta aaaagcatag cctaatacac ggcttataat aaaagataat aacatcctaa 300  
aaactaagac ggtggtggaa ggtcgaagct ctgacgaaga taagttacat cctcttcaag 360  
ctgcgtgatg cgggtatcca tgccttcaaa gcgaccatcc acagaatcaa atcgctcacc 420  
aacat 425

<210> 13136  
<211> 591  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13136

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actccncacc ccacgnctga ccoctganacg ttttctagga cacttaaate tcaatttctt 120  
acgggaaaat cttgctgcc ggcgttgtaa ttaaattgtt caatgtctgc tgaaaaacat 180  
cagctggggc tggtaacta ccgatgctgg ctactgttat atctattcca cccctgaata 240  
atacctggac gatagccata ctgaaatgtt cgatcggatt catccgggca tagcttctat 300  
taagacctct atatgtcata tattcctgag cgacagtcgc taacatattt ttccatcaat 360

aataagaaca tcatgcttat ttgcataggg ggctaacact tttatagctc atgaaatgaa 420  
 agcatgccta tgttcagcga tacacaatct tctctatag atccctactc gacctacatt 480  
 gaatttttgt aggnataccc aacaagcaac ctcttctaca taagaaatat atctacaaag 540  
 atgtaaaaga tctgaaggat gcgaaaaaat cgccggggctt taaacaccat g 591

<210> 13137  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13137

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 ttgggtggttc ataaaatatc tagctgtcaa acataagttt tactaactag aaatgaatgc 120  
 tgggtagagc attactatca atatgatatc aacatgataa attacctgga atagtgggtg 180  
 gggaaccctg atctccatag ccaagtttcg ctggtatctt cagcttccgc ttctcaccaa 240  
 gacacattcc caataatccc tgggtcccaac ctgcaaagag aggtagtgat catggaatac 300  
 tctatcttga aagatttccc atcaatcata aaccagtaat ttgtaacaaa attacatcat 360  
 acatactagt atgattatgt aaatacacgc atgcatgtat gtgagcataa attatagctc 420  
 atatgtcttg gtgggtatgt aaataaataa tat 453

<210> 13138  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13138

gtgacncctg acnatgatcg ccatagagna ngcgacacaa nataactcaag ctctggacac 60  
 ttaatatntg agagagaact gcatttccga tcttgagatg aattgacaaa gccagcagca 120  
 caaacaatag gtggtgcaat ctgaattttc cctgtcacat cgctttgcac atcacctgtc 180  
 tgtctctaca ttacaatgaa catgcatatg ctgccccacc tataacttca tcgcaactt 240  
 tatagacact gtgtctatat aatacctgct agtgtatgag tacatntgcc acatctacag 300  
 gtttcaccgc ctcttgatg atttgactga ctgcctttga agatgacatn ctgcgtgggt 360

gggataccct gacgtgtcga cacatatttc atgcacatgc tgctatagct attgggcata 420  
atcttacctc cgtatgatgg ttcatggatg tcgcgcacaa cgattttaac cttoctgcag 480  
aattccactc ttcaatatat aagaggtggt ggccg 515

<210> 13139  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13139

cgtgggcana ntgaccacg ggctncgctt gttatataat tggtctattg tccgctgaca 60  
aacatgacta ggtgctgctg gactaccgat gctggctact agtatttcta tacctcccct 120  
gaatcatagc ttggagcgaa tgcagatttc agaaatgttc cgatcggaat catccgggtca 180  
tgctcttita taagacctcc atctgttatc ttttcctggc cgacctcagc tagcattcct 240  
ctcaagcaat atcggcgaat catgtctttt gccaatgtgt gctaacgttt tcgtggctga 300  
tgcattatat gcttccaggg tcagtctgta acaagtctgc acgatataac ttatctgacc 360  
taccttgata tcttgaacga catccgacag ccatactctg ttaccaaaac atatatactc 420  
ccacgttggt aaaaattctg agtgtctgtg gaattatcct cgagcttcgt cgatctacc 479

<210> 13140  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 13140

aaactcaagc tctgattcga atttgagcgt ctccaattat aaatgactca atcggagtat 60  
cgagtcacaa gctatcgacc gtgcgaaagtg ctcatagcgt ctgtcagata ttgcaatgtc 120  
tccatttatt acaggactct atcgatcatc caagtaaaag ttattgtcat ttgaatttgc 180  
tcatagctac tgatacaatt ccttgcatct cgagttacta caggactcac tca 233

<210> 13141  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 13141

aaggacacag catacagtaa tcggcaacgg tttatggacc tggtatatag aagaacgcat 60  
 tgggtctgtt gcttatcgtc tcaagtaacc ggcagaagct ctcatacacc ctgtattcca 120  
 ctgttcatta taaaaacat tcaaagggc actggaatgc gtaacacaag tgactgacc 180  
 gaagcaatat aaccaccatc aaccctcgat catgcctatg actatcttag acgaagcgaa 240  
 gaactacagc tcatgggcct ctag 264

<210> 13142  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13142

cgatcgccat tgggccttga tgacagctgc actancngac acnacagcnn gctcatgctt 60  
 atgagtcctt atctgtacgg aaacgaagcc gcacgtgtgt atgtacattt gtacactcat 120  
 gacggtggca cgactgacat attgctagct tgtcactaca atcactatgc tctaacataa 180  
 agatgaatgc agtgtagagc attactatac tcatgatatc cacatgatgg attacctaaa 240  
 acagcgagtg acgaaccgga gactccatag cctgattaca ctgggtattct cagatttcgt 300  
 ctcgtattca gacacatcca caatggctgc gtggcccaac tccgcaagac aggcagtgat 360  
 caaccacaac tctatcttga atgacttatc atcaggggta tgccagaact cttgtgcata 420  
 agcacatgag acatgctact gagaatatgt gattacactc tagcacgtgt gtgaccatca 480  
 attatcgcgc atatgttgag gtgggtctgt acatacatat tatcaccctt atcttatgac 540  
 tgcacgata aaacatctct accg 564

<210> 13143  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 13143

tctgacagac catacaagtt tctaacgat ttctaattat gtgggccatt aactctatca 60  
 tatgctgaca atagccgaaa agcccatgaa tctattcagg ggcggagtaa gtgttcgcca 120  
 ctgctatggc cttggctaac tattagggaa ctttttgact cctgttcaaa gtaagagcga 180

atctggcctg ccacattgct gtctcttggg gccatgaatc aataaccctc tcccatagct 240  
 cgctatctgc tgatttcttg agcgactatc ctctacctct gcaactgagtc acgctaattt 300  
 acttcttttg cctcattatg acggccacat ttccttc 337

<210> 13144  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13144

tcataatgaa gtagccaagt agtgcaccca agaagcatga ttactctgt cntattttaga 60  
 aggttgaaat gctacactaa atacttacta ataaaattaa agtaattaca tttgtaattg 120  
 ctaatttatt aaataatatg tattttctgg tatgaacgtg gttctttcgg cttacggaaa 180  
 gcatattatg ttggttctaa aaaactaaat ttcttacatt aatgcttatg ataccaatag 240  
 ggaggtcatg cataatgggt tggttcctca tgatctcttt ttaatctaaa gtttacgaat 300  
 ttagtaactc aatattctcc ttatttttcc atgaatattg cagcggggct a 351

<210> 13145  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13145

ctgagccaat tcanacgaca ataactnttt actctgatgt ctgattgtgt cccgcaatat 60  
 atcgagacct tcgaaattga atgtctaagc tctgagccaa ttcaaacgac aatatacttt 120  
 tactcggatg tctgattcac gtcccgaata tatcgagacg ctctaaattg aatgttgaac 180  
 ctctgagcaa atgctaacga aaataagttt ttcttgatg tcttggtgag tcccgaata 240  
 tatcgagacc ctgc 254

<210> 13146  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13146

cgccacccag ctcgcccagg cgagcanggt agcttcctcc attatcaact accttctgga 60  
 ggaatcttat ggagggccca agtgggctg gttgctatgc gcactcccat tattactaag 120  
 gacaccccct gccttatctt aggtgatcct atcttcttaa agttacggaa acttacgaat 180  
 tncgtaacga tacttgtctt ctttcgtaa tgatacggaa cctttagat tgcataatca 240  
 tccttctttt gacttacggc atgttacgga acctcagcta atttgcaacg atgcttccat 300  
 tatagttctg gtgtgtcacg gaacctta 328

<210> 13147  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13147

gtttacttct gaacaatttt acttatcttc ctcanattag ggtgtatcat gactaacaaa 60  
 gacatgatta tcattttttg gcttatgagg ttacaaaag acatgatcat cattgggtggc 120  
 tcaaataagg tgcaaaggat aaattattat caaacgttgg attttaagct gagtggctta 180  
 aaataagaac aaacataaat aaggcttga tcacttcac ctcatgtaat taatctaaca 240  
 gtctaagaat aatgccaaat cangaaaata aatatagacg ttttctcaca cgtaggtntc 300  
 acacaactca ccacgacaag acaaagttag ttgcttacca taccatgatt tct 353

<210> 13148  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13148

tactcagctt agggtcactt tatttccaag tntaatctac attagatatt cttgacttga 60  
 agttctgttc ctattctgac tttaactgag atattaagtg taatatttga gtattttgca 120  
 atatggtcag tgcaatgacc tgatcaattt aataactga gatgctgcaa atattttctc 180  
 acagtttcaa taaaaacaaa aatgatgca tttaatttgt gaaacaaaaa aactgggcag 240  
 tcatectagc aagtccttga tcttatcaaa atcacaatct cttttatgat ttgccatgtg 300  
 ttgatcactt gggtgcccc tggtatggtg atataattga aacaaatgtg agacatttgt 360



aaaggggaatg aatgtctttt tcagaactta ttgagaagta cttcttacat acaagaatàt 420  
tctggagaat ctgaactacc aaaattgggtt cagaacttgg ccatgcttga tctcatccaa 480  
tttgatcatt ttcaataact 500

<210> 13149  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13149

ngacangccg acttgtntaa gtaataataa taataactat tatctataac anttttatgg 60  
cattatgaat gacagtatga agtggcatan agtgcttaga gagttccctt gcatgtgaaa 120  
aattctcaaa aagaaaagga cttatattaa aaggataata caaccagatt aatacttccc 180  
aagacaagaa tgttttgtaa agacattttc agacaattta aatattttta tttggctata 240  
ttagtataaa tcatgtctaa ttcatatatt nttaaatatt atgttcttta ttttcatttt 300  
cttttgatat actttgtgtt ttaataactt gaattcaata tgaatttgta cattacttat 360  
acaaaatttt ataattggtc ttttgggtag tatttcacta cgttttaaaa caatctaag 420  
gttaaagatg tc 432

<210> 13150  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13150

agatgaagat gaatccgtgg ccacctcatg gactcctcta agatttttagc atcatttctt 60  
gcactgaatt gttgggagtt ggaagccatc ttctcaatca aattcctagc ctcagcaggg 120  
gtcatatcac caagagctcc accattggca gcattaatca tactcctctc catgttgcta 180  
agtccctcat agaaatattg aagaaggagt tgcttagaaa tctggtgggtg agggcagctt 240  
gcacacaatt tcttgaatct ttcccagtac tcatacaagc tntctccact aagtttccta 300  
atgccggaaa tgtctnttct gat 323

<210> 13151  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13151

acatgatata tgtcanggct cggtttggtt caatgataaa agggatgcc caccattattt 60  
 ccatgacaca natgcaaaan atgatgattt ggaaatttta tgcaaaactg gtcattgcgtg 120  
 cgcctatggg gacgctcaag tgtcaaattt ttatgggtcat gtgatgctag ggctcacgat 180  
 tcatttcctc catattaaat caacccaatg ttcccaaaat atgtcctttt atcaatttgt 240  
 gcatttcctc aagtcattt caggcgtccg gngaaatttc atagcattca cccttcattg 300  
 gtacacattt ttttttcaaa aactagctat gatcagcgaa tttttctttt atagaatagt 360  
 tggaaccatc tctttcacia catgtaattt tagctagaca cttatttctc tttccacct 420  
 ctttttactt gcttctgttt cctatt 446

<210> 13152  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13152

ntctttggac cttgaacagg caactaactc ctctntcana accatgccat gtgctcgca 60  
 ctggtccctt tcttcccttc gcaacttgag ttactattg ctacccata gagctccgag 120  
 aaatttggtc cggccatact cttccttgag agccctcttg gtctcttggt caaaggctct 180  
 tgcggtaatt gcattctttt cccgtaacct ggcacactcc ttccgaacgt gtgtaacggc 240  
 caacttgaac ttcttcttgg ccagttttgc ctttcctaac ttgctttaga gagctaggac 300  
 ttctttgtct tc 312

<210> 13153  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 13153

cactaagaaa ctgagcttta ccttccattt taaagagcag taccaaaagg gtttagtttg 60

tagactgaga attgaagcac aaccaaagct caaagatggg gtgggtgtgca ctaaagttct 120  
 tgacattcta aacaaatact tctttccatt attgtgtatt tattcatgaa taactgctgt 180  
 catccgcaac ttgaaatgtg agagagaaag agatcctctt tattttccaa ttgttcctaa 240  
 aattacagaa ttcaaccatc ttagaattca gcgatcactg gttgaattca caatattaaa 300  
 agataaagtc agtccataga taatcttcca tttgaatcct atttccaatg tatcgctaatt 360  
 taaacaatca aattaaacta tcttactttg acaagaccac t 401

<210> 13154  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 13154

ccacgagaat gatttcaaga ttgagtcggc agcaagtcaa gaatctagag acattcgata 60  
 tccagaatca agtttcatgt ttggagaatc aagaagctag agtcttcgag attcatgact 120  
 cactattcac gaatcgagag ataactcact caagatcagt tctaaagttt ttttcaaaac 180  
 attgagtagc acatgacgtt ctcaagaaat gctttaccaa agagctatta ctctctgtgt 240  
 atcgattacc aatagcggat attgttttcc aaagctttca actgcatgta caaccttcca 300  
 atcgatggct ata 313

<210> 13155  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13155

ttgtcaccaa ctaggctact atccaatatg tgtgatagtt ctcaaaacc cagatataat 60  
 agagagcgaa agactcgtaa tttgattgtg tctgaacctc agtttttatt gcattctgtc 120  
 ttattcttta cttatttggg gtatagagct catgtgtatg tgtaagtgt gtaccgttga 180  
 gtagaacaga ctatcttcca acaaaaaaac tcaaagagtt atgagaagga gagattgtaa 240  
 gcatatttat tgagcacgac tcgtgctgac ctaacaccac ctgtgttgaa ttaacactcc 300  
 catttctcat agaacgctat ngctaccagc atgacctatg ctacgccaac acgacctgc 360

tactcagcat g

371

<210> 13156  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13156

tctacatgaa gcaaccagct cgctgtgtg agcatgttac ttcataactta agccatcagc 60  
tcgatagggc gagctgagct cgctgagcg agttgagttc gcctgagcaa gctgggcggt 120  
aagttgctcc cctatttggc tataaaacgg catgggatgc tgangggaag atgctcacca 180  
cccttggaac gcatatttca cttaaaagac ttttgtctta cagggacttc aatgtctttt 240  
tcctttacat ttcagacaca ttcaaagtct tttgtcttgc agagacttca atatcttctg 300  
cctttacatt tcagagacta tcacatacnt tttccttgta gagactctaa tgtcttctat 360  
ctccccctta catttcaaag actatcaatg tcttttatca tgcagagaat tcaat 415

<210> 13157  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13157

ntatagcaga ttntagtaat gaccactaa cttctaatta naataactta ttgccattaa 60  
cctagagaat taaaagaact taatggctga gtgtaactga aattgtggca accaaaagtc 120  
acccaacag tcactatttg gtctcccaa aagctgatgc ctangttgcc aattgggccc 180  
ttattacaac ttgaactaaa cctaactaaa gcccttttag ttgattaacc taaaacatat 240  
tttggtcagc cgactttaca aagattgggc cattatttag acaaattgaa cactctaaaa 300  
ttgagacaaa gtggtgccat ttagtctctc ccattttggg ccatgatata actcacaacc 360  
ttggactttt ctccttgaga cttgngcttg tattcaaata gtatggacaa cac 413

<210> 13158  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13158

caagtccata gccatcaaag tctgaaaaga gtatgatgaa ctaacggatg tcaatatggc 60  
cacagctgaa gccttggaat gagaaaccaa taatgcccga aaggaagaac acgaccaatg 120  
caaacttntg aggagcttta tatggcaaca atagtgatct caagctccga agacgtgaaa 180  
ggaatcatca caggtcaaag gcatgatctt gatagacgag ctaaagtctt gccttaggtc 240  
gaagagacat ttgtccaaca gttaagcgag actgaacgga atatgtgggc catcatcgat 300  
gagtgcгааag agaagctaca tctagcagcg actcac 336

<210> 13159  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13159

tgataatcag atgacagaaa tcaaaaataa gattaccttg tattgtaatg tattactcta 60  
ctcctgcaaa ggatgagtga gagacagagc cacagaatat tccaatgaag gaatgtgcac 120  
cacaaaataa aatattatcc cttttttttt tttatttgtg ggtaaataac caaatccatg 180  
tcaaaagtag gatgcattca taaattggtc tctaaagatg ataattataa attntattgt 240  
gaacgtgtaa aaaatatgat aaattaattt tttctggtaa aatntataaa attattttat 300

<210> 13160  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13160

tgagacnct cctatgacac atccaggact atcatctcca agttcattct tgcctcagc 60  
atgtgccttc tccattggag atcaagggtga catgtggagt ccaaagttca cagataattc 120  
atcttttgat gtgcgcttag acaatccttt ccatgtggaa agacttaaag agtgtagtgg 180  
gccatatagc accatgggtg aagtatcatg gctttataga gaaagtcaga agtcggctga 240  
tactgagaca ctgctcctga atctagtgtg aagctgttat atacttatac ttgattgaga 300  
taacacacta gaatgaactc tttggttcta agttgagttc taatgagcat gtgctattat 360

gttcgtatgg acacttattt gtcggctaga acaagtagac ctcggcattgt tgaagcacca 420  
agagaagata gctatttgga tcaacataca ctatgcttta gcgatgcat 469

<210> 13161  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13161

tccatcagat aacctcaatt aagcattcga ttcagttcag gtttcaaaga gactcacgaa 60  
agtgcattgtc aattcttgga attatctatg aggtgcacaa gctcacaaaa cattaagtat 120  
aaagacaaat aattaactca aacgttatat taatgtgaga aaattacatc taatagagtt 180  
caatcctttc ttctcctagc taagaaagaa actagacact tatgaaatac aagaagagag 240  
aagataatat gattnttcag taaaggggtg tgtgtacagg tgttctccta ggttttttgc 300  
tgctgcctat gcctttctat ttataaaatc atagatgtgt tttatagagg caaatgatct 360  
tcttaattta caaaataata taatctatac taggaaatta tctcttttagc taatataata 420  
tgtgttaatt ggtgcaatta tct 443

<210> 13162  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13162

catgagcaaa tccaattata ggctnatgtc ccatanaatg acgtccatta tcaattggng 60  
tactcatctt ccttttctct ctagagttta acggttgaac atttagtcac actcaatttc 120  
tcttaagcac tagccttggtc gtaagcttga aaggtgatcc aattgtcact atttatcttg 180  
aatgtctgca agaatacaata ggtcttttgt tttgggttgc aagaatgcgc atnttacgta 240  
aataacaatt ttttttcaat aaaatgatgc ccttttcttt caacaacaaa taggcaaaca 300  
taaaggatca attgaaacga ctaaagtctt cactat 336

<210> 13163  
<211> 467

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13163

tgtagcacag atgacgaaac tctgcaactn tgcccacana tttagtgttt ctcataatta 60  
tagacaatct attaatagaa gctgtgatgg taacatttag attccacctt agagatattg 120  
ttgtgatata ttcaatatga aaaatcatta tttggaaaga cccaaaccat ttgggagtta 180  
tgtcatcata atcgctattg acataggcaa gacccaagaa ggtgcccttg atggcaaagt 240  
aagcttttct ctaaaattga aggggtgtcc attttcatct ctaagatgtc tctctctaata 300  
gtatggggggg tgttgatcaa gagagataaa gtgatgaact ctgattgaag aaattggtaa 360  
gacttgacgc aagggaagat caatcaattg ctcccggcat tgaaaatctg cgaaagatag 420  
ttcacgagcg aggcatagtg caaatgacag aagatactat atcacta 467

<210> 13164  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 13164

gtaacctcat cgtctctcac agtctttaga attgagagcc tatccaattc ttgtgttcgg 60  
actctcagcc acttatgata gccgccgatg atcccattac tgettccctt aagctctctg 120  
tcctttcttc atgccgcac ccattgccttg cgaactcctt ggagtaccct cgcgttggtg 180  
tcaccgaaac cccgtgcgat gaaaggcgtg atgctctcct ctgatggcac tcctctcatg 240  
gggtagccaa gctgtcttat ggcgaggacg agattataat taatacaacc tcttggtcca 300  
tcaagggaac attcggacat ccttcgcatg aagatagaat cctgattctt ccttccttct 360  
agcgagggaa caagataaca gacacccctc catgctagcc aagagttggt cccaa 415

<210> 13165  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13165

ntacagcaga atttagtgat gaccactaa cctagaatta atataactta ttgccattaa 60

cctatggaat taaacaaaac ttaatggctg agtgtaactg aaattgtggc aaccaaaagt 120  
 ccccccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctaagt 180  
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240  
 aacccataac atanttttgg tcagccaact ttacaaagat tgggccatta tttagacaga 300  
 ctaaactctc tataattgaa acatagtggg gtcatttagt cctcctccat ttgggccatg 360  
 atacaactca caaccttggg ctttc 385

<210> 13166  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13166

ttgaccctt gantttgatc tacctatgng aactccaga ntactcaagc tttgcggatt 60  
 tggactatgc cagtgagagg atacacgtgg gtcccacaag aagctattct gatcatccta 120  
 ctaagacgac tgagaaaact ggcgccaatg taaaagggtga taaagaagga gaaacccatg 180  
 ttgtgactgc cattcctatt cgtgtcaatg tttatccacc agaaccgctc acaatgtgta 240  
 ttaactcata tcaataacaa gaactgctgc gtatccacca gccagatatg cacaaatgcc 300  
 attcctaaat caaacacaga gccttgctag cgcacttctt atgactataa cgacctttag 360  
 cacacacgcc ataagacatc aacaaatatg aatttgcagg caatcgacat gtgggggtgac 420  
 cccagattcc gttgtcatgt ggcgaactag atgccataat cactcaataa tcaatgcgta 480  
 gcgtacaccg aaacaggggc ctcaatctca ttatttgagg aacgatcgac aactgggtgc 540  
 tatcgtgaag act 553

<210> 13167  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 13167

tagcagatgc tgcagctgca agttctatgg aagagatggc gaagccatat gatccttatg 60  
 ccaagaaacg caagaactta atagctcgta actcctcaat tgagaggagt cgcagttgcg 120



caaatatggg tggaatatca tagcgaccca caaacatagc tcgaggagga acatcttgtc 180  
tactctgag ctgtagcgaa gagggtagga gctccacttc aatatctcct ccatgcactc 240  
ttcctcctct tcatccgcgc gtcattaata ggacatcgct gcctcaatcg tcttcttcaa 300  
cctgaagaaa tcttccttgg aggtcatatt cctggactga tctgcactct gttgctgagg 360  
ctcatgatat atct 374

<210> 13168  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13168

tctcanagaa gctacgagga agcttctaga ggaagcctct taatgaatct tctagagaaa 60  
gctacatgaa gctgtctcgg taaaaacgct gcccgacctt catcaattgt tggatcttct 120  
cgaaattcgg ccttaaactt cacaagacac ttgtcaatca tctgatcatt gagatctttg 180  
agaagatgtc tggagtgtgc tagaagcctc ttaatgaagc ttctagagaa aactacatga 240  
agctgcctcg gtagaaacgc tgcccagcct tcgttaaccg ttggatcttc tcgaaatttg 300  
gtttgcaact tcacaagaca cnttaccata gattaaccgt tggatcttt gagataatat 360  
ctggagtgtg ctagaagctt ccgttcccga gagcatctct tatgtaagca tttcagcctt 420  
tgctttcttg tagcttacga agaatgtcat gtcttcttct ttctcttctt cata 474

<210> 13169  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13169

tcggaagaaa gtgatgaggt acaagcccta naggcaaagc ttgaaagatc tctgnntagt 60  
caaagagaag ttcaagtcca taaccatcac agtctgaaga gagtatgatg aactaaagga 120  
cgtcaatatg gccaccgatg aagccttgga atgagaaacc aagaaggccc gaaaggaaga 180  
acacgaccaa aacaagttct gaggggcttt atagggtagc aatagtgagc tcacactctg 240  
aagaggtgaa aggaatcatc acgggtcaaa ggcgatgatc tgaaggacga gctaaaagct 300

tgccttangt canaaagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360  
 gccatcatcg atgagtgcaa agagaagcta aatctagcag cgactcatga gc 412

<210> 13170  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13170

agtacttgca gttgctcagc ttaggcaagc acctgagctc tgctgctcta ttgngtttat 60  
 tcataaaatg ccaggttggg gttcttttaa taaactgacc tgtgaagtct gcaatgaaag 120  
 attgtcctgt cggatatcat tcatatgcta gataagtagt tctctttagg ggcagtgtag 180  
 ctagattact tgataaagag tagacagatg tgacatatat gatttgcattg ccaagagtct 240  
 atttgattat ctgatgttga ttattctagt ctacactatt tatgcagctg ttgtagaatc 300  
 attaataaat actgggaaac aaatagcagc tgtacattnt attcatgcct tccagctcca 360  
 agaaagcttc ctcccagtcg cccttctgaa tgcatacctc aagaatcgaa tgagaaattc 420  
 acaagttaag actggaaatg tgcgtgacat cact 454

<210> 13171  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13171

cactatcaaa ctcagcttat agactctgtt gctntnagaa gaaaggaaca agatcttatt 60  
 atagaataca caactagttt tgttaaaagg agaaagacga ggaggagaaa taaatattat 120  
 agtataatat tatatattta gaataatcaa ataaagccat tgagttaatt aaggataatn 180  
 taatttaatt agtgtaaaag ttactctccc taccaaagt tccaatctta gaggagagtc 240  
 aaaattaatt ggggagggat tttaattctc ctccccttcc cttcaaaatt ttgaactaaa 300  
 caacataaat ttataaaaat cctacctcc aaccgaacac tataatntaaa gtacatgcat 360  
 ggatcacaag ggtntgggtc gtactatctt cctttgctat tntaaattca gaaaacagcg 420  
 agtagaatat ta 432

<210> 13172  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13172

tcgaggtcaa ccagaagaac ctanactccg cggtgcaatc agacagaggg taaccccgcc 60  
 aacaaaccat gtcaataacg taataagtnt gatccgcctg tgccacccca aaaatcacat 120  
 acaaagaana agaaaacaga aaacaaaaac acgacattca ttcgaataac ctagaaaagt 180  
 agcaaattca gacctcgtga aagatgcagt ccaatataga gtaggagggg tccttcttcc 240  
 ttgccccgct cggcaagccg gagggaaacc gatgcagaac ggcaccgttc cgagacggc 300  
 ttatcgtcgc tccgttgac gaaacgacga aacaccgttt cccggaaggc cgagcgaaga 360  
 cgaacctgan aacgatagaa aacggagttt gttaagttaa t 401

<210> 13173  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13173

aggtgtatca cttctccca ccacctcctt atccgtgagg gagaggaacc taattntgtc 60  
 caaagcctag aatgtgcaca ttattcgcca ttaacaaatc gttcaacaat taaaaaaaaa 120  
 tttaaatgca aggattttcc aaatgtaaac aaaaataactt tnttttaaaa aaaaaaaaaa 180  
 aagcgcttac atcagaagca ttggaaatca actctctgag gaagatatcc ttgttactgt 240  
 agagagaatt gatgatgata tccataagcc gcgacacttc cgcttggaaac tcaaatttct 300  
 ccacgttgct ctgaagagat ttcttcgaga tcgactacac ctccctttca atcgcaacaa 360  
 cacgcacacg tttatacaca caataacaag agaacaagag ataaaggga ataaaacaac 420  
 gaacacctct tgatgacatt tgaatcggtt aaaggccatg aggcacatca ctgatcttgt 480  
 cctttacctt cggtggtatc ac 502

<210> 13174  
 <211> 293  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13174

ntggataatg agtttttattc aaaagttagt cgtataaagc gattaacata ctccnccaaa 60  
tntacagatt tgcttgtcct caagcaaaga aagaatagtt cacttgcctc aagtgacaaa 120  
gatagtggcc aatcaaaaga atatggtgtt tgattcatca aggacatcaa ccatatgaac 180  
taaatatcat ggaatgctta aatcaatcac ttctcacaag catgcaactc ttcacagata 240  
ggagcacaag tattagagtc acagctgaaa taagctagta agcatgacag aaa 293

<210> 13175

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13175

tattcaagac taagatacac tacanaaaca tgtntattat gtgtngatta taaacaaaat 60  
ataaaaatga tgatgaaatg gtaatttgct acttttnttt taaaaaaaaa ataacagtaa 120  
ggagtaaaaa gagcatcaaa gagggtgaga atagcacccc tatecttcgc accccttcct 180  
tccttttatt nttttcacca ctaaaaggag cttgacaaat agatttttta gtcttagaaa 240  
tacacgaagg gaaaaaataa tcttggataa acaataaaca ataactttac ttttaattaa 300  
tatttaatct tgaagaggga taatgaatat ttattntcac cagaacaatt ttgtgagtaa 360  
aaatatacat atacattatt cttactcact atcacactgt cctcttaata attcatatat 420  
gtacattctg ttaatttttt c 441

<210> 13176

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13176

ctttcanatg tggagaaggt gtgtccaaca acaaatataa gaccattnta tgtgttaaaa 60  
agtaagagaa agatcgtaca tccgtatctc ccttggatat tcaatagaat tcttagcaag 120  
ctcagctcac gacaattaga agaaggaata acacagacta acatgggcac acgcacatga 180

tggtagtaaa aggttttggc ctcaatngga ttattctaata tatgaaaagt acgagagtaa 240  
attgaagatt tgaaaaatca caaaacagca cataactcaat tcagcangac anaaatgcat 300  
tgagtatatatt ac 312

<210> 13177  
<211> 558  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13177

cgcccccttg accccttgat gtctctgtct cactangcga cactacagac tactagagct 60  
cgaagcccat gtggatctat ctgaatctat cagggatatt attatcgtct tccacttacg 120  
cgaggggtgg aggacgacct ggtctctcta ctgtgggacg cctatcacga tgacgaccaa 180  
cacgatgacg accatctgca tgaccacgtt cagtacgtgg acctaggaca ggaccctatc 240  
ttctccttct cacatattgc aattactatg acagacagag tgaacttggt actctatata 300  
tgactgatac ttgctccgaa aactatcccc agatgagcct gttcataaga ttgattacgc 360  
agcgtcaggc tacaatactt aatatcccggt ctactgtcta tgcatacgaa aactacgctc 420  
acgtgtgtat actactgata cttgcatatt aatagatcta gcagactcta aactgaaatc 480  
ttggctggcg aaacatacag tgtagatgcc gataggccat tattcgactt ggcataccct 540  
tcgtgacttt cacacccg 558

<210> 13178  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13178

tctttcatcc attgcatata atgagactct nttatgtgtc ctttttctcc ttgaacacct 60  
tcttggagga tatattccat tcggaccacac tcttggtgtc ccactcttct tgatgttttt 120  
agatgaagga caactcatca tccttattag attcttctnt agattacca ttagaagtgt 180  
tccatgctca gtgctttgga cacactttta gacgatgacc tggatgacga ttcctttgac 240  
gatggtgtgt tccttacttt ctgagcacta agagcaagtg aatttccttt cttgacttct 300

tcattctagtt gaagttcttta ttcattggacc tttaaagttc caacaagttc ttcaaggac 360  
atggaatcaa gattctgtag cacccttaaa gctatgacct gtgatctnca ctctctagac 420  
aaactttctca agatttatca atgtgatcat agatatcata tagtcttcct atagatctta 480  
attcatttga tat 493

<210> 13179  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13179

taaggccatg ganaatagcc cacagcgcag ccatgagaat ggtacatgat cccagctntg 60  
cgganaaccc ataaatgaag gtaccaaagt tatcacaagt aaccctcca caagaagcct 120  
tggcaccatg atccatcaca ctagcatcac aattaagagc cacctgtcct acatctagag 180  
cttcccatct aatgtcgtga gtcccatgaa tgctgccact gttgtcaaca agtatatcac 240  
tgcggggagtt agcagccaca caagatgtca cgaaactaga aatcctctca ataacctccg 300  
tcacattcca cttgggttgcc ttaaaaatga attcattcct cctctaccaa gatatatgca 360  
acgcaattgc aaagaatggt ctccaataaa cacacctctt cacacctaaa attggacatt 420  
tggagcatgg agct 434

<210> 13180  
<211> 485  
<212> DNA  
<213> Glycine max

<400> 13180

cgaagggaca cacacatttc ctaggcccaa agtctcttct gtttaatttt ttacctaca 60  
cctatactcg tcaactcttt cacagccaat taacatagat gtagaccttc ctctactacc 120  
tgagtttgta tacgacctta ggatcacctg cacaattctg ttctcattag catcgatcg 180  
agcccaccag aaaacatgcc ttctggactt caacacttac aaagcaatgc acataatgga 240  
tgtgctctac caaagaatta atgcagtcac cctccacata tgcaaagccg acagagaatg 300  
tcataccaat cagtgtcatc tcaacatagt cgaacagaga gagtctaacc ggtttgattt 360

gtaagagctc ggtatcagag acaccaatta catgtgttga ctagcttact acataggggt 420  
gcatcaaaag atatactatc cacgtgttca ttcttattgt gagcaacgaa atactgataa 480  
cgact 485

<210> 13181  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13181

acactatgat actcagcttg gactcttggc aatatcttta naactagtca cttaaatagt 60  
tgtgactttt cgaaaaatct tcagaaacaa gtcacttgaa gaattgtgac ttttggaat 120  
ttatttttca aaatcagtca ctggtaatcg attatcatta aggtgtaatt gttacacatc 180  
aacagatgtg actcttcatt ttaaattttg aaaatcaaaa cgtttagaag ctctggtaat 240  
cgattacaca agtagaaaat gtttaaacat aagttgtaac tcttgaaatt tgaaatctta 300  
acattntaaa acactgataa tcaattacta ccttctggta atcgattacc agagagcaaa 360  
agtcttttgt aatgatgttg tgaaaacttc ttgtgctact caatgttttag acaaactttt 420  
ttaatactta tcttgattga gtcttctctt gattcttgaa tattgagtct tcaatcttga 480  
tcttgattat tct 493

<210> 13182  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13182

ctggtttgga attgagctag tattattaac agttatgttt tcatgagctt tttagtatga 60  
tnggatttgt tgaacttatt ataccctttt ttatacatag cgttcttgct aatttatcta 120  
caaatagtat tatttgaaga tcatcataca taaactntac gtctgttcaa atcatgcggt 180  
agtttgatca ttgaggatga catatttttg gctggtttgt aggattgaga atgacaaggt 240  
ggaaaactat tccatcactc atagcttcaa taagcaggaa aattggacta aatctctcat 300  
gtacactctt tgcaatttga aatgggccct ctatttgtgt tgtggaaata ctaacttcca 360

gccccctttca agcatggtat cttcgcatgc tgaagtgcct gctgtagggg ctctgtacac 420  
gaaacgtggg gttgatgccca natctgaatc tcgaa 455

<210> 13183  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13183

ntcatctagc caagattata caaaggtggt acaagagaac ctaacgattt ctaattatat 60  
gggccatcaa atctatcatg tgctgagagt aattgattag cccatgaatc tcctcggggg 120  
cagtgcacac ttcggccatg gcttttgctt tggctaacag acgcgggagg tcttgacttc 180  
cattcatggt caaggcgaac ctatccatcc acatagtcgc ttcttgatgc aacgcatcaa 240  
tcacctccc tcttgcttct ttttcgacat acacttgatgc aaaatcctcc actagctnnt 300  
gttcatgggc catggactgg ttcaattctt tcttgattg ccctatgata gctagcatgc 360  
tttgc 365

<210> 13184  
<211> 213  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13184

agagccaaca caggaaacta taanncttta tattacagca aatagtggac tagatgttgt 60  
atactttctt tctggtggca aatgtgtgct aggacttggg ataactgccc tctctacctg 120  
taaatttatt tcggaatatg ccttattggg ccactaaata tctgtgattt gccacttata 180  
actaagttat atatacctgc gaaaaaata aat 213

<210> 13185  
<211> 224  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13185

ngctctgtgg gcttctatgg aggctggatc tccgagccca tcgaggtctc ttaatggnga 60



aaatccacca tggagatgca gcggaagaca aacgagaaga ggtgagagga ggatccatcc 120  
 actaatgaat aagccatgga agaaggagct tcaccaccaa gatgagcctt ggataataag 180  
 cttggagagg atgcttcaat ggacgaaaag aaagagggag agaa 224

<210> 13186  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 13186

actcagcttg acctggacct tgcattgacc cttcacttat gaagtgtctt attgccttat 60  
 gctcttttga tagccctcta tcattccctt cttcttgaaa agaatccatc ctcagttgtg 120  
 catccaaaac acctacatca caagaagaca ggtcagcgac attgaaagta gagctcaccc 180  
 catactcact tggtaagtca atcttgtaag cattgtcatt aattctctca aggaccttga 240  
 caggtccatc acccctatgt tggaagtcag atttcctttg tgaaggaaat ctatgcttcc 300  
 ttagatgtac ccaaattctaa tcttctggtt caaatacca 339

<210> 13187  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13187

tgatgtgaga naggctggaa gagtcagact tcctactttt atttgttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg gggtcaggag accttgagga catcacgtgg ggtgctattg 120  
 cccaaaacca agcttggcca atcccgacct aaccggggca tagtcagtca gtgagaacct 180  
 gtgacgtacc taatcaagcg agctcctggc agtcaaccaa tgaaagatca tagtccacca 240  
 agcaaggagg cttgtgtggc ggctggccag ctatctatct tgggtgttat tagaaaaata 300  
 cactctggta atcgattacc atacatgggt aatctactat gaggggttaa acttgaaaca 360  
 tgacgttcaa tagcttctgg gaatcgatta ccaatgg 397

<210> 13188  
 <211> 373  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13188

gacactatga tactcagctg ggtgctatga catacatgat ccacctagat tggagcttca 60  
tgattaaaca cactactactt ccctaagtct ataaagtcaa tgaaataaca atggcagggtt 120  
attaagctta agctctaact ttacaactgg acaattgtag tgaagcatct aagtgaaagg 180  
caaaccgcat ctatcagctg ggaatttttc cccanagtat tcaagcaaga actttcttct 240  
gcaagttgtc agcacacaat ancggttcanc agcaagcaat gactccataa tagctcttct 300  
ttggttttcc tgggtacattg gagactcaca tgttactaag agaacaggga taacttgtct 360  
ccagaatata tgc 373

<210> 13189

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13189

cctctagcaa aaggttagaa agcgtgattc tccaccaaca gactctctgt aaccttcaac 60  
ataaatatat atgactataa tgggtttattt caatcagata cattntgctc taaggacttt 120  
tccaccatta tcaaatatta tactcttaat ttctaaatgt aagtntcttt tatatatggt 180  
tgatatttta aaactaattt tcttaaaaac ttaattatat aacaaaattg tgtcatacca 240  
ttcatnttat cactactaata ctttgtcaaa taaatctttc atatatatat atatatgtgt 300  
gcgtgtatat ttgaaattta ttcttcataa tgctttataa cataatctat ttaaaatcta 360  
atcagacaac anattgctct ataccataga atttactata gtaatacctt tcata 415

<210> 13190

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13190

tcgcacttga taatggagaa cacatgttca gcgctatgca atgacattca tgggtgctctg 60  
aacaaagggtg gagtatggag gattgccttg aggggtccgca cttangcaat catgaaactc 120

agctccaaac tcgaaagtgg aggacacatg aacagcccta agcaagaaca ttcattgtggc 180  
tccggaaaag gatgagaatg gaggattgcc ttaaggggcc tctcttatgc aatcatgaaa 240  
cacagctcca aactcaaaag tggaggacac atgaacagcc ctaagcaata acattcatgt 300  
ggctccggaa aaggacgaga atggaggatt gccttgaggg tcctctctta tgcaatcatg 360  
gaacacaact ccatactcaa aagtggagga tacatgaaca accctaagca ataacattca 420  
tgt 423

<210> 13191  
<211> 459  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13191

tgtaggatta tggcgtagcc atcacatgtg gtactaggtg gcggctcgagc gatgggtgcac 60  
aacaagtttt ccacatccac aaagcgcgca taaaccacc atccccgtt gccacacctc 120  
aactgagctc acgtactccc acgtagccca tatctctttt tctctcaaca ccgggtcccc 180  
atcaatcctc ccaagctttc ccaacatcaa agcaaaaaca cattcaaaca gcacaagcta 240  
tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaacca 300  
cagcttttct cacttaaaga cccaataac aattccttcg atccaattcg ttaaccgttg 360  
gatcgactcc aaaattttac tggaagtcta tagtacataa gcctacattt tgaccgttgg 420  
gatctactag caaacatnca gaactcattc tgtactact 459

<210> 13192  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13192

tgccaccag ctcgcccagg cgagctaggt tgcttctctc tgaagcaacc ttcttctgga 60  
ggaattttct agaaggcca agtgggtctg gttgctatct gcacccccat ttttactaaa 120  
tactccccct gctctttttt ggtgattctt tttccgtaac gttatgaaac tttacgaatt 180  
tcgtaacgat gattgttttc tttccgtaat gtagcaaaac cttacggatt acgtaatcat 240

cccccttttta ccttcoggag cgttacagaa ctttacggat tgcgcactaa cacttccttt 300  
 taatntctgg catgtcacag aacttcacga attgtgctac aatactttct tttgactttc 360  
 ggcatgtcac agaacttcac gaactgtcta gcgatgggtg ccaagtacct cg 412

<210> 13193  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13193

tgctcccag ctgcccagg cgagctaggt tgcttcccc ataagacact tccttctgga 60  
 gaacttcttg gaaggcccaa gtgggcctgg ttgctatttg caccctctgt ttactaaata 120  
 cacccttgc ctttttttgt tgattctttt tccgtaatgt tatagaactt tacgaatttc 180  
 gtaacgatan ttgtttgctt tccataatgt cacgtaacct tacggattac gtaatcatct 240  
 tttttttgac tctcggaatg tcacggaact tcacggattg tgtaacaatg ctntcttttg 300  
 acnttccgca tgtcacggaa cttcacgga 329

<210> 13194  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13194

tgaagaggat gctntaatgg aggacaagaa agttagaacg ctggatcacg anatacaagg 60  
 aataaaagat ggagagaagt ggaactatca attatgtctc acaagactct cattcatcaa 120  
 agttacaaca tgtgtcacac atgcttctat ttatagacta agtagcttcc ttgataagct 180  
 ttcttaagat aacttccttg agaagctttc ttgacataag tctcttga agcttgagct 240  
 tatctactct cactcctctc aatactaagc tcacctgctt gagaaacttc cttagaaga 300  
 ttcttaaaga agctagagct tagctactct tacctctcta atagctaagc tcacctccct 360  
 tagatgataa gctagagc 378

<210> 13195  
 <211> 233

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13195

tctgcaatgc tntaacaatgt cctcgttgaa gcgcgagggg atgtcgtgga cgtagatgta 60  
gcgccccccg catgggtcgc tcttggtgtc tgcggttcgg agggcacggg cgaaggggaa 120  
agtgggtttc tccggttggg aaattttctc ggggaagccg aggtttttac gaggttggtg 180  
aagttggaga gtgatgggga ctacngngtt agggttggtg ggttggtggc gga 233

<210> 13196  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13196

tgtattaaat gcatgtccct tcatgtaaag tctatgttga tatgttagtg tgtcttgtag 60  
ttcaacagag aagttacttc tttcatcata gcaagtctac aacaataaag cacactcttt 120  
gatgaggatc aatgtcttct agattgtgga tttcatttat tcttcatagg actttgacat 180  
atcctagaag aatgcctttt gcatgaaaga atcttagaca taagagtatt aaatgaagat 240  
tttanatgca ctacttaaatt gttatatcaa atcatcttgt gtgtgtatcg tttaaattatt 300  
tgaatgcaca gagacagatc atcatctaatt aacatatcaa gaccaacat ttattattta 360  
taattatgcg catctaataa aaataatcag gagttatgat tcatcattaa gacttaacca 420  
tttcttgact taacaacact actaatcaa 449

<210> 13197  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 13197

cttgcttatg ggcagtagca cccacctga cgtcctcaag gtctcctgac ccctgcgaca 60  
tatctgcagg taccactctg tggtaacaa acataagtag gaagaccac gctttctcac 120  
atcaagctta ttggattatg gggcaccgt catatgtggt actaggtggc gatcgggcga 180  
tggtgcaaatt taactctccc atttccacaa gtcaggcata agcacaccat tcccagttgc 240

ccaccttaaa attgagctca cgcactccta cctagcctta tactcgttcc tttcaacaac 300  
 aggtcccat caacgcctct aagctttcca atatccaaaa atcaatttca tttgtctgaa 360  
 acaccctaaa caaaaaacaa g 381

<210> 13198  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13198

tgcttctaca ttggatgcct tagtctcctt tttcgngtat gaattgtaga ttgattatta 60  
 ttgcttgtaa gaattattga tgcatagtgg aaatctaatt caagttgtgg attagataac 120  
 tggattagct tatctaaaaa tagagagtga accagtataa aagattgtgt ctttttctct 180  
 cttgttcaca tctttcactc attcaagggt taatcaactc attcaagttt tattcaagggt 240  
 ttgaaaacat tcaagtttta tgatttttga aataaggatg ttaatgaagg atcatgtgta 300  
 acgaaggatn gattaagtat tgattacata tttcatggaa tgcatcatta aaggttcttt 360  
 attcca 366

<210> 13199  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13199

tatccctaga ggggatggac cttttcaggt tntggagagg attattcaaa ctcgacaagt 60  
 gcatcgatc acgcaagtag tataaaacgg taagaaccga gtatcaaact ctcggngaac 120  
 ttgtgttact tggtaaagct atattcattg aataggtgtc tagtattaaa agatatgtgt 180  
 agactatgaa caggtatgta aactaactat taaaaggaaa atcacgtgag taatgatgtg 240  
 taaagacaac tagacaacac gttggtcttc ctattaggtg cctgatttta ttaagatatt 300  
 ctctacttaa caatgctcat gtgttcaatg gcgtctcctg aaatgctaaa cttgatntc 360  
 tcatgatagt ctagcctaatt gctgatcaag catcgctctc ggatctctct tgttggacct 420  
 aacttgac 428

<210> 13200  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13200

tgttactaag gaagaagttt atcatgttgt ttcctctatg atatcgtata aggcacctga 60  
 acctgatggg tattagaaaa tatttttttaa gatatttttg gaaaagggtg gagatgatgt 120  
 ttggagattt gttagagaag cgattcagaa ggtatgtttg atgtgtaggc tgctaagact 180  
 attattgtcc taattcctaa aggtgattct caaaaaacat ttagagtgtg tttggataga 240  
 gaattttaac aaaggaaagt aatttatcag agaatttana tttttctaata ctagaattca 300  
 ttggttgat gtntttttat gaagaattaa atttttggaa tcttataaccg gaatttaaac 360  
 aactaaaatg tg 372

<210> 13201  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13201

ctttcagccc acgtcggana cccttccaac ccgaaactta gccagcaagg ggcacccgct 60  
 caaccacaaa gggccccgcg tcaaaacccg gctactacac aacctcgctt cgctggcatt 120  
 tccaaccctc cagtgaagaa gcttctggag tttgccctga ttctgttgct gtacacagat 180  
 ttgttgccat ctttgatcgc caaccaaagtg gcgatggtga cccttagaag gatttaccag 240  
 tctcatttcc ctcggtgtta caacccaac gctacctatg cttatctggc gggtagccccg 300  
 gggcattcga tagaatagtg tgtggccctc aagcatgagg tccaaagttt gatcgacgc 359

<210> 13202  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 13202

ctcctacacc aggaacaact gttctaggtt agcaaaggca taatcttcac ctgcttcaat 60

ggcccagagc cttttctcta gatgatccaa ccttcccatt tctgtcatag catgagggct 120  
 actacatgtg ggcacacgca ctaccgcgta acccatattc tcccttctct caacaccggg 180  
 tccccatcaa tccttccaaa cttccacaac attcaatcaa aacaacattc aaatagcaca 240  
 agctatcaca gcccagccaa acagatcaaa tgcacaaaac tgtgcctaaa caccaaccaa 300  
 aaacacagct tttctcactt aaagaccc 328

<210> 13203  
 <211> 99  
 <212> DNA  
 <213> Glycine max

<400> 13203

tagataagat acctggtcct tagtcctatc tttccatata gtacattttc ttgtctgcc 60  
 tagtttatgg gatcagtagg tattactgaa attattact 99

<210> 13204  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13204

tgattcanat tagaagctaa ccacataaac taaaggatat tatgcaagct cattgtccct 60  
 caaatgaata tagaattaag aggggttgcaa tgcaaattgc aagttccctt ttaggtaaaa 120  
 ttatttatca tttgagtttt atccttaaaa attatgggta ctatttgaag gcttttgtac 180  
 actctagttg ttattcaatt ctcttcaaaa gttaaanttt caaatgaatt agcagaagta 240  
 ccttgcttct atgaagccca tacagtggac cagctaatac aagaaaccaa atttatgtga 300  
 tatgggcatg acattttacca tgggacacgt gacttcacac ttagtgtagt acatttttca 360  
 tgaaattagt ttaaattcatc atatagaacg agcccttaca caacagtaaa cttgtgcctt 420  
 gatattgata atgagttcga atctg 445

<210> 13205  
 <211> 360  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 13205

atcacatgtg gttctangtg gttgtcgggc gatggtgcac aacgggaatt tttcacatcc 60  
 aaaatgcgcg cataaaccga ccattccctg ttggccacct ccatctgagc tcacgtactc 120  
 ccacgtagcc catatcctcg tttctctcaa caccgggtgc ccatcaatcc tccaagctt 180  
 tcacaacatc caagcaaac aacattcaaa tagcacaagc tatcacagcc aagctaaaca 240  
 gagcaaaggc agaaaactgt gccaaacacc aaaccaaatac acagcttttc tcaactgaaag 300  
 acccagtaac aattttcttcg gtccaattcg taacgttgga tcgactcata aatttactgg 360

<210> 13206  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13206

gccgactaat ttanaatcat attttttgaa cagtaaaatc taattacttt ctaaaataac 60  
 atgatttatg ggtaaatggg gaccctagct ccatattaat atgaattgta tggagctaag 120  
 gtctcatagg accattatgc aaggccaagt gggttggccc gagagcctaa gaccaaata 180  
 acagctttta atacagtaca agagatgatt gaaaaatagt gtaaccaatc atgctatagg 240  
 gaattaatag atgcatagtt gaaaccttgg atgcttagtt ggaggtatag ccttgcaaac 300  
 aactgcttca agcattctat tcgaatcaag ttgacgcac caattgataa gttgataaac 360  
 tctaaacaag aatcccaaca ctttgggtac tttcatgctt catccaactc tgacagttct 420  
 attccatata ctatcccaat ca 442

<210> 13207  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13207

tgtaggatta tggngtacct gtcatatgtg gtactaggtg gcgatcggga gatggtgcaa 60  
 atcaactctc ccacatccac aaatcacaca cgaaccacc atccccagtt gccaccttc 120  
 aactgagctc acgtactccc acgtagccct tatectcgtc cctctcagca ccgggtccac 180

atcaaccctt ccaagcttcc tcaatatcca agcaattcaa tatcaaaaaca tcatgaacta 240  
ccctaaacca aaccattcaa acacaatggt agatgttaaa agttattttc atcttggttg 300  
gttgctatag ccaagaggac tcgtcaaata ttattagaga atatattgct aaacaatttc 360  
taacacctat gcactctngc gtgatccctc tatagtcaat tatatgaatc ata 413

<210> 13208  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 13208

tatattcttt acgatcaagc atctaacata acattaatat tgcgctctct agatgaaacc 60  
aacttcaaat aaatcttata aattcgcata cttaaaaagt ttacttggcc actacacaaa 120  
ctggatgcat aatttaacct accatcgaca ccataaaata ttctacagtt acaaaatggt 180  
ttctcaatgg gcaaaatgac ttatatccgt atgggttcca ttcttgaaa 229

<210> 13209  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 13209

ttgtgttgta tccagaacat tcgagactat ctcttttatc ttagtgagag tgattctcct 60  
aacttctaga gtgattcaag aacaccctgg ctatatcaaa ggactttcac aacgcttggt 120  
tgttgccctc gccggaaaga gtgattcttt cctatctttc atatgtcagc ttgttcttct 180  
taaccatcat tacagaaaat gcatttctgc ccagaattat ctcgagccat aactcccgtc 240  
ttacgcactt aagttaagct atatttgtac ctaccttgaa tttcaag 287

<210> 13210  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 13210

taagtattta ttacctatac ttaacagaat atacttataa cactaccaa taaccataaa 60  
ttggaagagt tatatacaat ttacacaagt tttatacaca aaagttagtc gtattcaccg 120

actaacaact cccctaaatt tacagttttg cttgtcctca agcaaaaaga gaacaactca 180  
 cttgtcctca agtgacaata acatgcagtg actatgtaca caggtgtatg caacaaaagt 240  
 tagtgatttc atgataagag aatgaagtac aatgccctga tcacttgtca ttcac 295

<210> 13211  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13211

tagggtgatt aggtgctcct aaagtagcca aaaataagaa ctacgatgta tcataaattt 60  
 agtttgcttt tgaaacagca aagaaattnt attgaatcat tatagagaca catgatttat 120  
 ttcccaccac atcgtctaga gtgtttcaca gtgttagagt aattgggtatt ttgtaatggt 180  
 tattgtattt gtcttactct ctacagtttt tttgcttctg ttgtacccta aaaggggcta 240  
 tgtatagggc aggctccctt atgcctgaac ctgtcacatc tatectttct attgtacttc 300  
 atcatatatt attaataataa gtcngtgcca agtgagagaa taactcttga gcacttttga 360  
 tctagacctt tcctcttttag tcacagcttc atgtaaaagt cccctacctg taatattgaa 420  
 catc 424

<210> 13212  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13212

tgtcatcaag actgtcattg ctctgtggcac ttttggcaact gtccatcgtg gaatttacga 60  
 tggccaagat gttgcaggta tactccacta cactacactc tgttgctttg ctctcacagt 120  
 tgaaaagttg agttgtcatt cgatgtgtgt ctgaatgttc tcatatatgc aactatgtgt 180  
 ttcacgaaaa caaagaagaa catgcatagt ttgattttcc ctccatttat tacacctgtg 240  
 tgtttgacac cacatacatg tgcaaggggg gaagatttgt ttacttggag aagttcatgt 300  
 agttggtcct ttcaacttac aatgtngcat aatgtgcaca tgcttccaaa actgtatggt 360  
 gat 363

<210> 13213  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13213

tggtaaanat aaagctcatt ctaacctatt tcactaagct ntactgtcaa tcttatgaat 60  
 catttgataa gtgctgaatt gctgattgag taagtgccta attaagctac ttacccaaac 120  
 aaaccttgat tattatataa cgaatgtaat aaataaatac aaatcatata attttcctga 180  
 ttactacctt tgcattgacat actgaacttt ggcactaaga ctgaactcag acataatgat 240  
 acacatttcg aatacaagtc ataactgata atataatgat ntacttggaa cagtcataatc 300  
 aaaaggcttt acaagtggat ccttcataca aagcagctgc tgagtgcctg gccattgttt 360  
 taacggatat tggtagcaac ataaagcttg caggaaatac tcangaagga atcaaaaata 420  
 ctttgaagct ctcaaaatag atccacacta tgct 454

<210> 13214  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13214

ntgagggatt ggtctttgcc agtgaaagga tcgatgtggg tctgaaaaaa tgcaattttg 60  
 atcgctctac taggacgact gaganaactg gggcaaataa agaggggtgag gatgagggag 120  
 aaacccatgc tgtgactgcc attcctgtac ggccaagtgt cccaccaacc caacaatatc 180  
 ttactcagc caataacaaa ctttctcctt acccaccacc cagttatcca caaaggccat 240  
 ccctaaatct accacaaagt ctgtctaccg cacttccaat gacgaacacc accttttagca 300  
 caaaccataa acaccaacca agatgtgaat tttgcagcga gaaagcctgt ataattcacc 360  
 ccaaattcag tgtcctatgc tgactttgct ccatactctac ttgatnattc aatg 414

<210> 13215  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13215

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gggatntcct tntagtaggg aatctatcct tctaagaat gttccaaacc cagtccccct   60
cattaagaac tagctccttt cttcctctat tgcccttagt tgaatacacc tatgtttggt  120
tctctatattg ggtcttaacc ctctcatgca acttctttac aaactctgac ctagattccc  180
cttcttttatg tataaaaaaa agtgtcaagt gggaggggaa tgaggtctaa ggggtgtaag  240
ggattgaacc catagacaac ctcataaggg gattgctcgg gggttctatg aaccccccta  300
ttgtacgcaa attctacat                                           319
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<210> 13216  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13216

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ggcatgattt acatttctccc cttttctcaa gcaaattctt cttgacatca tcaatttctt   60
catgatttaa agataaaact ttgtaagaca taaaagattt tcataaaaat aatttcagaa  120
gatgaaaaca gatattgcaa atcaaacaaa gttttttaat aaaatcaaat tcaaacccta  180
ggtcagttga aaatagaaga gagatgaaag tagtaagaca catagattta tagtaggttt  240
gtctcaacca ctaagactac gtncatttct tagttaacca ttaagttcca ttaactttaa  300
taagttacag gtattaatca ctaccacttc tagctctaca actcaggctc tacccc     356
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<210> 13217  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 13217

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tcggtattca atttcgatcg tctcgatgta ttacgtgact ttatcagaca tctgagtaaa   60
aacgttattg tcgtttgaat ttgctgagag cttcaacatt caatttcgag catctcgata  120
tattacggga ctcaatcaga catccgagta aaaagttatt gtcgcttgaa ttttctgaga  180
gcttcaacat tcaatttcga gcgtctcgat gtattatggg actctatcag acatctgagt  240
aaaaaagtta ttgtcgtttg aatttgccca gagctacaac attcaatttc gagcgtcttg  300
```

a

301

<210> 13218  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13218

tgtagccatt agaagagaat gagcatgtgg ttggaagtat gactggaaat gttagtcagt 60  
 ttgtcagatt gattgtgagg gaatgcatta atcgtatcca gtgagagtgt gatccttaaa 120  
 tttttgagaga aacgactatc atttagtact gattttttgcg tgaatctctg aagtatggac 180  
 taaatgcatg aaattgagga tgatgaagac catgtttgat tgtgatagcc acttagccaa 240  
 aaagctgacc atgtgcttga atgaattatc ccttgtaacct agtttgagtt gaatgaatta 300  
 ttgattgatg gaaccctgag cctatacagt gttatctcct gctaccttga cttaggttgt 360  
 angagagcat catccacatg aagcatgngt canagcaa at ttgtcccaaa 410

<210> 13219  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13219

gagccatcgt ctccatgctg catcagaaga ctaaganctc tcccctgacg gnggagatac 60  
 gagtagtgaa gtcaaataata gcacgcatga cagtgtctatg cagaaagctt aaaggatgca 120  
 ccttatcctc accccacagt ggctgaaggt acccaagaca taagcgcgga gaaagagcct 180  
 caaaccacag ccctgaccat ttaccagata agcccgaatg acacaagcaa tataggtttg 240  
 tgtgacgaca ctctgatata aggcccaaag cctaaggaaa gctcatcaag gtgtagctcg 300  
 aacccaaacc cacgcagagc atgcctgtca ggaaggacct caccaacct gagcacaagc 360  
 gcaagactaa tgtgctacac cagaacacac acccgctcgc ttgagaatca tcaaacatgc 420  
 cagtgcacaca cccagcctt atcatacaca g 451

<210> 13220  
 <211> 331

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13220

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acttcatgcc cactttcaag ggtttgga taagaactaa catgaaaatc aaaacaatat 120  
ggccctgtgt gcgttgtag gtgtattgta tgtgactgta aatgaatgct tgaatctata 180  
aggggtgcac atatcctcta aatagctat aaatagaagt gtgcgtgtgg cttccctatg 240  
gccttcagca catgtattaa tttatggaat caacatataa tatatacaaa gagattggac 300  
agcttttcta ctctaactag ttttatatta t 331

<210> 13221  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13221

tgaatggaaa acaacatcgc tttaggaagc attaaaaaca cgtataaccc aagcctgtgg 60  
ttgttaacaa catcgcgtta gttacaatc attcataacg ataaaaaat atacaataat 120  
ataaggtttt agtttgtgt gaggaattag atagacacat acgtttgtgc tgcttccttc 180  
aaattttccg catcaaagta cagctacgtt tgtgttccgg ccattatcac gttagcacta 240  
tcaatgtttc actaatcaat atcaaagtgt ttataacata aggtgtgata tttataattg 300  
agtaatctat atctttctac aaatntttta agatataatc angttgtatt attatgtctt 360  
atttagttta ttataaaagt ttgtgcctac tctggaggca aggcacaca cactttgatt 420  
gcttgggtag gcagcttcta atcctaaat 449

<210> 13222  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13222

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gttattatca caccaagaag atattgtgtc caatgggtat ggagtattag aagattcatg 120  
 tttgccctaa tgattgcata ttgtacatac atgagnttca agatatgcac aaatgcccta 180  
 ggtgaggggt atcatggtac aaagtgaagg atgatgacga gtgtagtagt gacgaaaact 240  
 caaagaaggg accccaacg aaggatttgt ggcatcttcc catcattcca aggtttaagc 300  
 atctatttgc taatggagat taacggaaaa aaccttacat ggcatgcana tgggtgaaac 360  
 tacgatggaa tacttcatca ttcggctgat tccaccagc ggaagaagat tgattgttat 420  
 atc 423

<210> 13223  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13223

tgctctanan tacattgatg tttgtattta tgggaggagg ttgtatgcca ttnttgtttt 60  
 aagagtagtg tcccactggg aaaactaact ttccaaatgt ttgccttcgc aggaaatggc 120  
 cccgaggaag cttgcctcaa agagggtccag gaaggacaag acagccgaag gaactagttc 180  
 cgctccggag tatgacagtc accgctttag gagcgtgtga caccagcagc gcttcgaggc 240  
 catcaaggga tggtcgtttc tccgggagcg acgcgtccag ctccanggacg acgagtatac 300  
 tgatttccag gaggaaatag ggccgagcg gtgggcatca ctgggttactc ccatggccaa 360  
 gtttgatcca gaaatagtcc ttgagtttta tgc 393

<210> 13224  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <400> 13224

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 ttgagactgg ccaagaagcc acggctcgaa ttatggtata catgatttcc atacagtcaa 120  
 ggttttaaat tgcggttgag gtttcatcgt gtcacttgat attgtgctcg cattgcagtt 180  
 gtggacccta aaaagaactt gacattgtag caaaatcat ggttgcaggc cgtttataaa 240  
 accttgcata tgatgtttag tgctgcaact cttctatttg agaattattat accaatggct 300



tacgacatat agaataattct tctggtaatt tttctttggt agcacagggtg ctgatgtggt 360  
catctgtgca tgtagaacat atta 384

<210> 13225  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13225

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ttcctaaaga agttagagct tagctacaca cacaccccat gccaaaatac atganaatat 120  
aaaaaaaaag tccctacaac aaagactact caaaatgcc a tgaaatacaa gactaaaacc 180  
ctatactact agaatgacca atatacaagg cccaaaagaa gataaaaactt attctaatat 240  
ttacaaagaa gagaggaccc aaccttggtc catgggctca gaaatctacc cctaggggta 300  
tgagaacccc aaggccttct ttagcagctc taaccaatc ctcttgaagt cttctatctt 360  
atacncttgt ngggtaggat tgcattaacg ttgaccaaac caaaccaaag agcatagaaa 420  
atctatttaa at 432

<210> 13226  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 13226

aactaagcat aactgatagg gagatcacca ttcacattcc agaaaataca ggagctttta 60  
tagtacagaa aatgaacagt gagagtatca ttataagaaa cagtactgct gatcagcaac 120  
taacaaacta atggactaac taaccatcta acagaataaa tgcgactgaa attacggtga 180  
aatgacaaac ataaaatgta ctggcttata tctaataagc aagggttga aagcgctact 240  
atggataatt gcaaataatc gatgtgatca taaatgccat actatatgtg aagtgtcaac 300  
attataaccc tg 312

<210> 13227  
<211> 274  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 13227

ctcctgaacc cttctttaca aaaattgtag aacttttntg gttactctaa cgttatgctc 60  
 gagtggacgt tagtggcgac tcttacttat tttctcctta tgagacgaac atgctatctt 120  
 atatttgctt tcgtcgtagt gtactatggt aagttgacgac aacctatctat aaatatgtat 180  
 ttattcgctt tactatgtta aaacgattga cgtttctaag atgggtcttt cacaaaaccg 240  
 tcttataaag tagctatact acgacgattt tctg 274

<210> 13228  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13228

cgaagtgaga cagtgtggaa gagacagncc gcctactttt atttgacgac catagagtgg 60  
 tacgtggaga tatgtcgcgt gagtcacgat accttgggga cgctccgtgg ggtgctattg 120  
 cccaaaacca agcttgatca atcctgaccc aaccggggca taatcagtca tggagaacct 180  
 gtgacgtacc taaacacgag agctcctggt agtcaaccaa taaaagaaca aataccacaa 240  
 agcaaggatg cttgtgtgga ggctggccac ctatggatct tgagtgatat ctacaatatg 300  
 gcctctcgta atcgattacc accggtgtgt tat 333

<210> 13229  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13229

tattaagaaa atcgccgat cgtagttcg attaatatta atttgagatt tgattctctt 60  
 atataatgtc tcgattttaa tttgatggat aaaaaaata cgattaaaaa taaatatctt 120  
 tatatactaa ccaatataat gatgaaaaag aaaactcatt aattatcttt atagacgcat 180  
 tattgaatga catcatagat ttttatatac taagcatttt ctgatacatg tttgtctgtt 240  
 tttttaacat attcttggca tgagccgagc caagccaaag ccaaacgagg agccacgcca 300

ctaacatctt tctcgctgaa acgacgacaa ttaanattat ctaaccttca cgccagttcg 360  
ctgcatccaa cgagaacagc gcgactacaa ttaga 395

<210> 13230  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13230

tgtaatcgat tacacacata ctgtaatcga ttaccagaag attttttttca ganaacattc 60  
tcaacagtca catcttttttg tgtgggttctt gaatgagtat cataggccta taaatatgtg 120  
acttgagaca cgaatttgat aagagttttt cagaacaaaa aggtcttatac ctcttataaa 180  
gagaaatcgt tttatcctct taaaaattcc ttggccaaat tacttgatgat tcaataagga 240  
attatttgaa tgctcaaatt gttcaatcta tctttttcaa gagagatttc ttcttctctt 300  
cttcttcatt ctg 313

<210> 13231  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13231

tatttgtaan tttttctctc tttaaaatga gaagctaggt tttatagatt atttatttat 60  
ttatttaaaa gctcttaaaa ttataatgag cttatattta aagaagataa aaatagaaaa 120  
ataagctctt taaaaaagct cattgaaggc gcttttgacc aacttaagtg agctcttttg 180  
aaaggagcac acttcgaatc ctatctcacc ccttttttat gcttattttg tttctcacca 240  
tcacactata tttggctgat atgtatatga gctgatnctt tatttgattt tcaaattgca 300  
aactaattga ttctgtatat atatatatat atatatatat atacacacac ccacacacac 360  
actgtcaatg ccaaaaatac aa 382

<210> 13232  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 13232

tctccccgcaa ttttctataa ataggggggag atgttaagta taaaatgggt cagcccccta 60

ggcacttctc tctcttttga atttgcttag gaaaattggt tccgtgaaga aaatccaagc 120

cgaggcactt ccgtaacggt tccgtaacgt tttcgtgagt gatttcgcga aggttttcga 180

cgttcttcat tcgttctaca tcgatcttca gccttcaacg ggtaagtacc tcaaaccaag 240

cttttcaatt cattctatgt acccggtggtg gtccacattt tgtttcatgt atttttattc 300

tcgtgttcat ttacttatta taccgcgttt tgatgtgctt aaaccattta tttaagtca 359

<210> 13233

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13233

tgccatgcga ttgcggagag gttggagatc catctcaacc ctatgggtggc cagccaagc 60

acatcgacac atgagctgat cgaataatgc ctcangatta tcaggagtgt cacacnaaac 120

tagctagtat atgttaggtc ttgacgcatg cggcgcacgg atcagtcgta gtttatttac 180

acantttatg ttgaaattcg atctctatgt taggattgcc taatctaact taatggatga 240

tattaagatt gtgatcaact cgctgcctat taaagtaatt tttgaaaagt gtttttttaa 300

tatgttttaa atcttaatta tcaactatact atgtataatt ataagcacct ggttgatgtc 360

gtctagatga tcgatccaat catg 384

<210> 13234

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13234

tgaacaagga aatntgtatg aagcacatga attaataaga tatgatcaat aaataaaggc 60

tcattcctag atcatagatc tattgagttc tctatttcag atcttgaatc aaaaatgtca 120

tcacacatga naatgggtgc atacttggtg actgcagttt gtttggtcaa taatcaataa 180

tataacatct ctgagaaaga gatcgaggca aaggtctcac ctgagataaa caagtgtaag 240

atcctgcata atacgtaatt ggattttact tccataacaa gcaaataaca ttttaaact 300  
 ggggagcact attacatatt tacattgcac atactgtaaa aatcctaaag gcgttcctag 360  
 actatcaatg atacgaagca ataggatctt g 391

<210> 13235  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13235

ctaactcttc aaagataacc aattcaagct caaaggtaat tatgtaaagc aagattaata 60  
 tgtactaaac aagcatgcct agctctaaac aatcaataca atgtcacacc tattaaatat 120  
 gttntggcat ctaaaatatc aaaatcaaaa ctaaaaaaga tgagccttca atctacaatg 180  
 cattcggtat tgtattaatt cacatgctgg ggtggcatgt cttttagggtt actactctga 240  
 tctatactat tatgcattaa gatntgtacc aatatgtgcg ctcaccaaact gggatattca 300  
 tttaaaatcc tttgtgttat gaaaactgaa aattaaactg ctttttatat gtactatnga 360  
 aggggcannng tgaaagcgca tctatatata tatatatata tatatatata tatatatata 420  
 tatatatata tatgaatggg ttaaacaact gaattgtn 458

<210> 13236  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13236

ntgagggatt ggtctttgcc aatgaaagga tcgatgtggg tctgaanaaa tgcaaattta 60  
 gtcacctgc ttggacgaat gaganaactg gggcaaatga agaggggtgag aaagaggag 120  
 aaacccatgc tgtgactgcc attcctatac gaccaagttt cccaccaacc caacaatgtc 180  
 attactcagc caataacaaa cctcttcctt acccacggcc cagttatcca caaaggccat 240  
 ccctaaatca accacaaagc ctgtctaccg cacttccaat gacgaagacc accttttagca 300  
 caaacataa aacaccaaca anaatgaatt ntgcagcaaa tagcctgtag gggtcacccc 360  
 aaattccggt gtcatatgct aaacttgatc ccatatccac tcanntattc aat 413

<210> 13237  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13237

tgtaatgcat gttcatacca catcttatca ccctcacctt gcccccaata tatacgcatc 60  
 ttanagagta tatctttcttc attcatagaa tttgctttat ttaccaacat ccaagggttca 120  
 tatacctctt tgctttttta attttgatat gaatatcctt cgatatgtcc cctgaattcc 180  
 tacaatcaca atcactaatt gatttacctt ctttgtcatt ctctttcagt gcatgttgtg 240  
 gtctagcctt cgatccactt cctttagagc ttgctaattt cgagcaacca atattggcta 300  
 gacaaactag tttctcatga caaatatcct atcgtggacc atatttcttg cataagaaac 360  
 aaaccaagtg tacataaacc ttcataattta tggaggaaat atcactccat ga 412

<210> 13238  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13238

tgcatttga attgcgaaag cccactcca tcattaggat ttgtacctga catctcaaac 60  
 aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120  
 tgtatcacac aattatggct tttctctaatt gaaacactct tgctttttac cactctaatt 180  
 ccccttgagt tcttaagcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240  
 atgtgtaagg taaggctaga caaggaaaag gttaaccaag aaaaaggcta acaatgtttt 300  
 taggcacaaa tgaaggaaat aaaattcaga atttaggaat tcaagtaaca atccttcatg 360  
 caaccaatat attaccttan agagtgtttt ttnttaagtt cttcaagcat gaaccattca 420  
 gcccaatnnt tttttttt 438

<210> 13239  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 13239

tgtaagccta ttacagtagt gtacaaccga attcttttctt ctcataaaaag aaagaaggat 60  
aaaggggaagg tagtggttgt tccttttaaaa attaccttct agcggagtat ttataatgta 120  
tatgatctta catggtatct atttgctcta gtgagtgtat acagaacaaa gagtcatttg 180  
agcaatatat ttcaccacct ccaaactgca aagttttgta tgtcccatct cattctccac 240  
aaaatggctg ggaacagttt acagcatgct tgtggatacc acatttgttc tattggagaa 300  
ttcctttcta caactatgac gcgcatcaat atttgtggct gcctcatcac ttttggtta 358

<210> 13240

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13240

tctatataag ctgaaccatt ntatcaataa acacaagttg agttttattc agaaaattag 60  
agttttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgcctctgct ggaaagagtg 180  
attctttcct tcctatcatc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240  
cctctgcca aaattatctc gtgaccataa ctcccatttc acacactcaa attaagtgat 300  
tcttgagcct aaattgaatt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360  
ttggagccct gtagctttcc gtattgccat ttctatattt ctgtccagcc accacttaac 420  
ctacg 425

<210> 13241

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13241

tgagatgagg aagtgttgaa gggtgaaact tcttgcttat attgttgacc acagagtgg 60  
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180

tgatgtacct aaacaggcga gctcctggca gtcaacagat aanaggaaca aagaccacaa 240  
agcaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatatgt gagatatgga 300  
ctctggtaat cgattaccaa tggggtgtaa tgcattacaa gggcttataa atgaagaca 359

<210> 13242  
<211> 347  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13242

tctcaaggag gtgagcttag ttacgaaagg gtgcgtgtag ttaagctcta tcttctcaag 60  
gaagttttct caaagaatct tctcaaggaa gttttctcaa gaaagcttct taaggaagct 120  
acctagtcta taaatagaag catgtgtaac acttggtgta actnttatga atgagagtct 180  
tgtgagacac aactcanagt tcaacttttt tcccttttta tccttcaatt tcttgctcca 240  
cccctctctc tttctcttcc tctttctatt cctgcattga agcatcctct ccaagctctt 300  
tatgcaacgc tcactcttggg ggtgaaactc cttcttccat ggcttat 347

<210> 13243  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13243

gtgtgacaaa aaaaaaacac tnttatgata tcacttttct ttttaccttc taaggatagt 60  
actaaaaaaa atttcctcgg agtttttagct tattttaaaa aaaattaatt aaacttttta 120  
tcactgtaca tgacacacat gtttaatcta gtccttgacac aaaaagaaaa gatttccaaa 180  
tcagtccttg tatattaagg ctacccaaaac aaattagtag ctacaactct gcagttctct 240  
gctgcacat cacaatgct gaattacaaa ttgagcacia gacagaatga accaaactag 300  
attgtccttc ttatntgtaa tcttcatang acatcagtag cctattattc ttattccaga 360  
cattccaaaa aatctgcttg tgtaattct tttgacattc aagcttgtga tggctgcaca 420  
cactg 425



<210> 13244  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13244

tgcattgggat ccctgtnaca aattatttga agnnagtgca ctaatatattg aaggggtacgc 60  
 aaatatgaag cgaaaacgca cgtggaggga aagaagagag ttgtatatat aactgcacca 120  
 aattgtcata caatgagggt tgaacgtcta agagtgttct caagaagggt gataagagag 180  
 ttcacatttg tgtcactggc gacatgggtt gagtaaattt cctccaaaat ctgttcatcg 240  
 gacatgcatg gatagtggct cctgctcatt ctcagcattc tggaggagag acttggtaga 300  
 cattgacatt attatgctca tctctcg 327

<210> 13245  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 13245

gtcttgaaat cgtacattaa cagctctaata atacaacttg agatotttctc cttctacttc 60  
 tccactcatg attaaaatat ctacaagaat cgcgttagaa gtgatcgtaa ataggccata 120  
 caatatectc acacaaatac tctcacgtgt atatactaaa ttctttttcac ccgtgtgtca 180  
 ctcttttttg atctttccct ctaatagttt caccactctt gccttatacc acccaacttc 240  
 tacttatgaa ctctaaagta agaacatctg cggttgatga tacatgacaa taaacaacaa 300  
 ggagtccatg ataactttat tgagtaagat caaccataga gcaaactgag aatagcgaat 360  
 tcgacacaag ggattt 376

<210> 13246  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13246

nttgtgtaca taagtnttgt acatcacatt atatgtattg gtgttagtca atgaatacga 60  
 ctaacttttg tgtataaaac ttgtgtaaata tgtatcaaac tcttccaatt tatgggtatt 120

ttgtagtggtt ataagtatatt tctgttaagt ataggtaata aatacttagt acttccattt 180  
 tgtgtgttta ataatcattt tctctcaatt tcagggttaat taggcaagct ttgaaaatgt 240  
 tgtttttcat cttctcgcta agccaatctg ctggcttagc gagcggtcac taagcgcaac 300  
 actcatgggc taagcgcgag gaagactcta gaagaagatg agctgtac 348

<210> 13247  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13247

cttgcttcta caaatatttc tgctgtgtt tattaacaaa aatcaacatt tcactctaaa 60  
 aataagcatg gatgtttgct gctttaatta caagggaaaa atcacagtcc aaattgacaa 120  
 tactctgcaa tttgcacacg tttctaaaaa tttaatgtct cacctgcaaa actgacatga 180  
 aatgaanaac tcataatctc tttgttcact ttgaaaatca tcatanacgt ttgcttcttt 240  
 aattacatgg gaaaaatcac agtccanatt gacaacactt tgcattatga gttg 294

<210> 13248  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13248

tccatcaggt gggtggccca tttcttcttg actcanattc ttcaagggat ggcaccaatc 60  
 ctcttccaa ttcccaatat ggcaacccaa aaacaaggaa acagagacaa gcaataacca 120  
 aagacaaaa aaaatgaaat gaaagctaaa ccaatggagt tttaacaaga caatttttca 180  
 aggattattc aacaattaaa tcaatgaaaa ggacatagaa tcaagctatg actcaaagag 240  
 aaacttagaa tggctctaga gtagagtaaa anaacaaaaa aaaaaagact caacaaaccc 300  
 ctagctttgg cacttgtttt cacagtaaat tttaattgaa atttcggaac taagattagt 360  
 ataacatagg caccaattat agaataattt ttgagacana acaacaagca cacttccc 418

<210> 13249  
 <211> 292

<212> DNA  
<213> Glycine max

<400> 13249

gacctataga aactcaagct tcacatggag ctacatcatg tggatcaga gctcaccatc 60  
aataacttgt ggtgttataa tcaccaccac caccaccatc aatgtctctg ccaccatcat 120  
tgtccctgcc accaccatca ttattaacaa taccacctct gtcattgcca ccacaaccac 180  
taccaaggtc attgcaacca ccaccacacc gccatcacca atatcgctac ctccaccacc 240  
ccaccatcga cattgctacc acccccacta tcgctgccac cacctaaagt ga 292

<210> 13250  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13250

ngatgtcatt canaacacac tatgtcgacc tatatgaaga ctatcatgca ttgtttatgt 60  
aattgtattc attatgcgat ataatttggt gtaaccggtt actaaccaat taatattatt 120  
aagtactcgt ttgggtaagc aagaaaattg ttggcccaac aaaaatcatt tacgcgtgca 180  
gcatacatca ttgtcataat tgacaacaca taatgacatg catgcgtatt atagtttgac 240  
cgcgacaaca cattggctga ctgactaca cattctgaag gaaacataat cagaaacat 300  
gttcacgcgt tgtctattat ttgtaaaca agttaagcaa tcgctcggtc acaaccatct 360  
atatatatga cagacacggc taataaatca cacattatct tattttcaaa tagtctccca 420  
attgatacac aaagtatgac attttt 446

<210> 13251  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13251

tganaggaaa caccactgtc gttgtgaaca atgtatccat ttggaaaaat aaaaccta 60  
gtggagttca caactgtctg actgcttgtc tctcccaaga attccatagt tttttgtaag 120  
acttgggttg atactgaaac ttgtgctttc ttacagggtt aggttgtgcc atatatatag 180

atgactntta atatcagtgc tgcatttttt taagattaaa aatacgcagc cacatgcttt 240  
 ctgtatgtgt tgtcaactac acgaatgacg tgacatgctt tagcttgcat cagatctgca 300  
 tgtgtagtca tgggtgtgcag ggtcctttca cgcgctttta tgtaatgcag acnnacaatt 360  
 atcatacacg atttttccac atgtgtagt 389

<210> 13252  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13252

tatcctcaaa gatataatatt ataagaatta aattcaattt ctctcattct tgttttatga 60  
 taaatttatg tatttttatt ttaaaattag aattctaaaa acatatacctt ttcagattga 120  
 agaatgaaat tcaactaacc tgcacgaaga ataaatgatt ctcatattaca ataaattaaa 180  
 ggtatacttt ttttaacaat aatacatctt ttaagttcat atttcttata attagaatca 240  
 aaataataac tctctttttt ttttaatgag agagtatggt ataaacacag acatccaata 300  
 acataacaga gcagcacttt aaagtggaag acacttgctc ctaattttcc gaaagatgcc 360  
 atgattctta cgtggaaaag aatatntcct ttat 394

<210> 13253  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13253

tggacttcct atattntgng aacctctcct tcctcatgtg tacccaaacc caatcacctg 60  
 gttcaagcac gactttcttt ctgcttttgt tggcttgctt tgcatagctc gcatttttct 120  
 tttcaatttg agccttcact tgctcatgca gcttcttcac atactcagct ntagcgtgtg 180  
 cgtccttatg cttaaacata gcaatgtag gcataggcaa caaatcaaga ggagtcaaag 240  
 gattaaatcc atacactatc tcaaatgggtg aacaattagt tgtgctatgg acagcccgat 300  
 tataagcaaa ctcaacatga ggcaaacatg cttccaaga tntaagggtt ttcttttaaaa 360  
 cagtcctaag cagtgtacct aaagtcctat tgacta 396

<210> 13254  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13254

gcttcctaga agagagtagg gggaccctng gtgatggttg tccacatatt agtcgctgta 60  
 gtgctaagtg ttttatatga tgaaaatcct accggccaga gctaggtgcc acccaggaac 120  
 ctatgggcta cgttgacttc tccctacaaa atgtcttctt tctaggtaag taccacatac 180  
 aactcccaaa gctcctggaa ataaaattat tgcgtacata tntagattaa agttttctaaa 240  
 tttatagttt taatttaagt taatttacag agtataaaaa tgctacttaa ctcatatttt 300  
 tataaaacta agttttcatg ccaaagctnt atgtgcaa atgtatttttga gagtaatcaa 360  
 acgtgtcttc aaaataagtt tatcttttaa actgaatntg ctccaacaag ccaacatagc 420  
 ccatgtgtta tggct 435

<210> 13255  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13255

tatctattgt gtggctgggg gataatttaa ctctacaagc aaaatatcct actttgtatt 60  
 taataagcaa tcagcagacc tttctatttc tattttttac acatttaaaa ctcaaacata 120  
 taaaatatat aacaaactaa caaagataaa gacaaaaaaa aggaaatata aactcacctc 180  
 acttgctgct gctgcccac atttcactct cacaacaaat aggaatcatg taccttcatg 240  
 gacggatcca cataaagctc taaggagatg attgctcca ttaagatatt ttttgactt 300  
 aaatatattt aataaaaaaa ttactntcca aattgggcca tatgtcta atcaatcacc 360  
 gcacaccttt cttcagtgc tntatgatgg ggacgtcact gcagtc 406

<210> 13256  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13256

gcttaacaat caatttcgag cgccttgata ttntacggga ctcaatcaga catccgagta 60  
 aaaagttatt gtcgtttgaa tttgctgagt gcttcaacat tcaatttcga gcgtctcgat 120  
 atattacggg actcaatcag acatccgagt aaaaagttat catcgtttga atttggtcag 180  
 agcttcaaca ttcaatttag agcgtctcat atattacggg actcaatcag acatccgagt 240  
 aaaaaggtat tgcgctcga aaatcctcaa agcttcggta ttcaatttcg agcgtctcga 300  
 tatattatgg gactcaatta gacatccgag taaaaagtta ttggcgtttg aa 352

<210> 13257  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13257

tgtagaatgg ccagacatga tacatgtcag ggtttggttt ggttcaaggg taaaagtgat 60  
 gccccacatt atttccatga cacagatgca aaaatgatga tttggaaact ttatgcaaaa 120  
 ctggtcatgc atgcacctat gtggacactc aagtgtcaaa tttttatgct catgtgatgc 180  
 tagggctcag gattcattcc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240  
 ttatccattt gtgcattcat ccgagtccat tntgggcgtt cggggaaatn tcaactgcgtt 300  
 cacccttcgg gtgtacacac attttttttca aaaaccagct atgatcggcg aatntcccan 360  
 agaagagttg gtagtcatct cttttcaaaa gcatgtcgng ttttcagcta aacaacttat 420  
 tcttggtttc ttttcc 436

<210> 13258  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 13258  
 tgcgatgagag gcttccttgg ggaggaagtg ttacaccctt ccaatagcaa agctcacccc 60  
 atgggaacac acaccctcc aatagctaag ctaccgccc cccaaaatac aaaaaaaaaag 120  
 accctactac aaagactact caaatgccc tgaaatacaa ggctaaaacc ctatactact 180

agggtaccct taacttgtag ggtagggtgt ccttaatttg tagggtagcc tacaaaccta 240  
aaattgacca aaatacaagg ccataagat ggaaaaccta ttctaataatt tacaagata 300  
agtaggtgca tacttagccc atggacccaa attctaccct aaggctcatg agaatcct 358

<210> 13259  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13259

gctgaaggaa gaaagagaga gcttgcgat gaggtgaaac agtttacaag gcgaaaaaca 60  
gagcaaggaa gcaaaagcct tagcttttag gaggatctta ggtttaggag tgatttctag 120  
gtttctagag gtggaggaga catccccacc actgtgtaat ctattatattt ctttgaaaat 180  
ccccttttta cttgtgaaag gtgttgccct gtgatggaag gttaaacccc tttgttgga 240  
aattctgttg agaacttgat gtaaattctt atcctatcta tttgagggtta tttntatgtg 300  
ttcattgctt atatctgtgc tttaattact gcatgctatt ggtctgatca tccatttgtg 360  
tgtaaagtta ggatttttat cattggaaaa ttgattaatt cttagaactg gatagagcaa 420  
ggctagataa ctaca 435

<210> 13260  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 13260

tcaacatgtt aaacatcgct cacctactga aactatttaa ttattcaata tcctcgatc 60  
gaccaaagta tacgtataat ataaaattaa aaaaatgtac aaatcaaaga cagtcctaca 120  
tgtaatttca gtagatttgt aaaattaaaa atatgtacaa tataaagaca gtgaatacct 180  
gcatataatt actatacatg ctaatttttt cacgttacaa ttttttgatt aaacataagc 240  
taaaattata acttgttgaa tatatatata tatatatata tatatatgta tacatatata 300  
actcacgta atgtttggaa tttaaaaata aaatcagtaa tatattctaa gaagcctata 360  
atgacaatat 370

<210> 13261  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13261

tgtcacacaa tctgtttcat aatcatatta gttgtacttt gttctggaca tcaatacaat 60  
 atgcaaacgc acgtatcttt ctatgcnaat aaattgttta ctaatgtaaa aaggtttaat 120  
 tactctgccg tccctgaact ttactaaat tctgtgatga tgtgcattnt aatatanttt 180  
 ttattcaggc tangcttgat tggacttaag aaccggttca atgttgatct attattatgt 240  
 aaaaccaatt ttaagattgc cagtatttan actaacaagc ataatttatt aaaattattt 300  
 taatcgattt gaaaattatc ttttggagtt acaaaattac ttattaaatt gctatagttt 360  
 cattttataa ttcatttntt aagacttaaa taatttgtaa gtcttgaact gtttgatgaa 420  
 atttaatat tctctggat 439

<210> 13262  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13262

tacaagtgcc caaaccaaga attgtctcat ttgtacaacn cttagtatan attcagcaaa 60  
 ctnaaagaca atggttnngaa gagctcaang agcccaagag tttatactca agatgcaact 120  
 atggggttga gtttatttgg atggattaca tagcatttgg tctaaagaac taattaaggc 180  
 ctattttcta tttttccttt aattttcata ttttattttc atgtaataag ttcatatgac 240  
 tattgacatc tttgagggtca atttttatgt ttttaggctt cccaagttat tttcatgtaa 300  
 taagttcata tgactattga catctttgan ggtaaatttt atgttttttag gcttcccaag 360  
 ttattatagt ggtagtggg aattaattct aagtggaata atttctaggg gatggt 416

<210> 13263  
 <211> 419  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 13263

tgactaggcg agttgattnt agccttagtt tcaacttagt tattagtcga ttcaattaag 60  
 aatgagaaat cccaaagaga aaacatccga ttgatttttc gctttatttt actaaaaggg 120  
 tatttttttg attattatat tattatttta cctctttttt gatttccaac gtggttacgg 180  
 cacgaccgaa cggtcggaat tcattttaac cgaaattaac ggatgataca attcaaacga 240  
 tcagtggana tttattttat ttttagatta ggcgagaaat gacttaaata aatgactaaa 300  
 gcatgtcaaa aggggggtata gaaagcgaat ganaacgaat ataaaaatac atganacaaa 360  
 atgtggacca ccacgggtac atagaatgaa ttgaaaagct cggtttgaag tacttacc 419

<210> 13264  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13264

taacaacctt aganatcaag tgatcataaa ttccgaaata tatggggagt aaacgtatat 60  
 acaattgttt gttgcttgct tgaatcttga tttcaggat tgtattgtca tcatcaaaaa 120  
 gggggagatt gtagatgcaa ttgccttga tgttttgatg atgatcatga tgatgtgta 180  
 caattgatgc aaatgggctt ttcaagatta aattcaagac aatacttcaa gattacaagt 240  
 cacaacatca agatgatcac tagaatatta ggaagggat tcctaattga attagcanag 300  
 gtttggccaa gtgatttaaa ttaaaaaagt gtttctcana ggttntactc tctggtaatc 360  
 gattaccaga ggatgtaatc gatta 385

<210> 13265  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13265

nngatttggg ttagacatga ttgatacatg atttgggact ttaggattt gatttgagca 60  
 agattggatg aggggaagtg tgattttcaa aatctgcact tatgcagaat tttgctgtca 120  
 aaataggtgc agcaggattt tagcttggtg cagaaaatgc ttgtgtgtgg ttggctggng 180

aaagagtagt atagaatgag ttctggatgt ttgctagtag atcccaacgg tcacaatgta 240  
ggcttgtgca ctatagactt ccagtaaaac tttggagtcg atccaacggt taacgaattg 300  
gatcgaagga attgttactg tggctctttaa gtgagaaaag ctgtgattnt ggttgatgtg 360  
ttgagcagag ttttctgcct ttgctctggt ttgcttgct 399

<210> 13266  
<211> 183  
<212> DNA  
<213> Glycine max

<400> 13266

cgtaaatctc cacgtgtcaa cgggcttgtc agccgtgatt gacgaagggc gcagaagacg 60  
acgttagtct ctgctgtgta tcatgctttt cgtcttacag acaacaaaaa gtttatacgg 120  
ataaccactc ggggtatttcc gcccgtaaac gtgactcaaa agtcagaatg acagaacttg 180  
tga 183

<210> 13267  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13267

tcagagtctt tgattcatca taagcatcta cacctttcaa tccctaaatg ttcaatgttc 60  
atagtctgtt atctgcatcc aagtgaaggt ccaactatta ctctcgtttc acgagtcttg 120  
gatccaacaa attacaattc atggagcaga tcaatgttta ctgctttgag tgcaaagaat 180  
aaagttgagt tcgttgatgg aaccattaca cgcacaaccc ccttgatatc taatcatttt 240  
tatatgatgc ttggaagaga tgcaatgatg aaacccta at ttgtggataa actnttcagc 300  
atcaacaaac tanggaacct atntaggact ctctgaa 337

<210> 13268  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13268

agctnttcgt cttacagaca gcananaaga atgtntatac ggataaccac ttgngtatatt 60  
 ccgctcgtca gogtgactca natgtgagta tgacagatct tgtgatcgcg gaagatgacg 120  
 taaatctccg cgtgtcaaca ggcttgtcga cgcgattgac gaaaggcgca gaagacaacg 180  
 ttagtctctg cgtgctatta agcttttcgt cttacagacc gccaaattaa tgtttatacc 240  
 gataaccact ctggtatatac cgctcatcag cgtgactcac atgtgagtat gacacatctt 300  
 gtgagc 306

<210> 13269  
 <211> 589  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13269

cacctccac acccactcac tacatgagcg aacaggtcga tgaccacacag tatggtgata 60  
 ntaaacaanc nagggtagacg nnntnnnnnc ttgagccata gtagnccggc gaannccnc 120  
 cgaccaggg atgctctaga ggcgaccgc aagcatgcaa gcaagagatg gtctaattctg 180  
 catattgcat taagcgcggg agcaagtcac ggaagtatag gccacgaaaa tggtaaccaa 240  
 gagcaagaga agacaaagac cccacaaaga atgaatgaaa caacgacagc caatagattc 300  
 gataacgatc ggaagaagaa cctatatgta tgaacaaac gcaagaacaa gtaatcaggg 360  
 cctaattatg actgatggca ggcataaagg aatcggacat cctaattgac ctccggagaa 420  
 gacatacaat atggacccta aaaggcaacg aaaataccag cgaaagaaat gacgctgaat 480  
 ggaaggcata ctggaacata cggcacaacc attggccatg acctacacac acgaagaaaa 540  
 catgagacca gaaacaccag ggacaatgac ataagcatatc gaatctacg 589

<210> 13270  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <400> 13270

agcttttcga ttcattctat gtaccgtag tgggtccacat tgtgtttcgt gcattattat 60  
 tctcgttttg tttacttttt ataccctctg ttgacgtgct taagccattt tacttaagtc 120

attttctcgct taacttataa ataaaataaa ttccaccga acgtttgaat tgtattatcc 180  
 attaacttcg gttaaaataa attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240  
 aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300  
 aaatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaattg attaataact 360  
 aaagtgaac taaagggcta aatcaattcg cctagtcaag ctcgtccata aaaataggct 420  
 tttgaagtt 429

<210> 13271  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 13271

agcttagcat gcactccatg cttagcccg actgaaagct tagcacactg catgcttagc 60  
 gctcagaaag cccatagcga agcccaaatg tgcgcttagc acataagctc gcgctaagcg 120  
 cgaattcagc gtgaatatta agctacatgg agcctatata aggaggaaga aaaaaaggg 180  
 aaagacatac cgagtctcag aactctctag tgaagtaatc cacagtttga gcctctccct 240  
 taggggaaac cctctttcct tagtcattct ccattctctt actattagtc atccatcccc 300  
 ttcttctatt agcctttgaa gtgtaaagtc tctcatgcct atgagagggt aaacccctc 360  
 tgttggagcc tagtagccaa agcccttgta atgaaactgc tcttcttatt tattaatgc 419

<210> 13272  
 <211> 603  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13272

cgcacgcca ctctcaacc ntagaatata agggagngt aanaattata cactgagcgc 60  
 ggtcacgacc ttntacacta ntncagtnna ataggnaggt nnggccctga aagccatggg 120  
 gagaccnggc naannccann ngaacccggc gagcanacaa gaagaactgc aagcgagcaa 180  
 gcagcactta taccaaccag caagaaaaaa catagaagcg ggcacccggg gcggaacacg 240  
 atccagatac cgccaccgc caagtcaaga gcaaccgaag ctcggaacg acgaacgaaa 300  
 cacaacgagc accaaggaca acacaggcgc aatgcaccgg atgagcgaag ggaccacaaa 360

gacacaaaac agccacatga ctgaccggaa ggcgaccgac atacgaaaaa agaggcgaca 420  
gcgagacag agagaccaa acaggaaacg gccgcaccgc ggacaacacc gcaaagaacc 480  
agaaagagcg aggcgcacac aaccagaaca acagaacagg agcgccaaga ctacagaaga 540  
aaacagaaag gaaaaaagag acaccacgcg caaaacaagg acgatcaagc aaggagacga 600  
aac 603

<210> 13273  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13273

ttgcttatag ctcaatggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60  
gtttcccttt ccttgttatg aagctcacta caagccttaa gtganaaacc atgatatcac 120  
catatcctta aggaattttg gagctttgga attgttttgg gaataagtgt ggggggttct 180  
tgtatcattg gacaacttgt tttgttggct atgcttcatt atgtaatttg ggccatactt 240  
gatgtacatt gtatattggt taaatgttgg acatgctgaa tgaaatgttg tttctcaaag 300  
gctatagagt aaaaaaaaa tataatcgga aaataaaaat cgaacaaaag aaaaagaaag 360  
gcaatatagt tgagtgaata agatcttaaa t 391

<210> 13274  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 13274

tagcttccat caagtggtaa tcagagcaca agagcttcaa gtaggtgttc cttaaaccctc 60  
cattaatttt ttgatttacc ttctcttcca ttgttgttcc ttcattcttt ttctccatgt 120  
atctcctcac atgtcttgtg ctaaatgttt ttaacatgat tcttttagagt ttccaccgat 180  
taaacttgct atagaaacta gatttgattt tctatggttc acaattgttg ttcttgttct 240  
tgaaccatat atttgtgcga gtttacgtac ctttgagatt tgtcttggtta tattctttgg 300  
ctgaaacctt aaccataaaa ttcttataaa tatattaaag tataagaaaa cctcaataat 360

ctagagtgc ttgttcacct attgcaagtt tgtcat

396

<210> 13275  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 13275

agcttgtatc aatagaagag tatgagcctg tgattgaaag tatgactgaa aatgttagtc 60  
agattgtcag attgattgtg aaggaatgca ttaaccatat cccaatgaga gtgtgatctt 120  
taaattttga gagaaacgaa tgtcatttag tactgatatt tgcgtgaatc tctgaagtat 180  
ggactgactg catgaaattg atgatgatga agcccatggt tgattgtgat agccacttta 240  
tccaacaagt ctaccatgtg attgaacgga atatccctag tacttcattt tgagctaaat 300  
gaattattga gtgattgaac 320

<210> 13276  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13276

agctntgaaa actctctgga acttggacct ttctctcttt agaagtctct aaacatgcaa 60  
aagctttgat aatttcccaa actcccctcc aaaatctgat ttcaggctta aataggtggc 120  
tttgtttgtg ctagcacgct tagtgcaact atggaccgct cagcgtgcat tagtggattt 180  
cggcttagcg cgtgcgtttc tcacttagtg gatggactga agtggtgcgc ttagcgggat 240  
gacccttcgc tcagcgcata tgcacaactc atccttcttc cagattcttc ctcgtaaccg 300  
gngagtgttg tgctcagtgg atggctcact aagccagaag attggcttag cgagcggatg 360  
ataatcaaca cttcacaac tttctaaatt aacctaaaat taagaggaaa tggttattaa 420

<210> 13277  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13277

agcttgcata ccacgcaacc gaatgaacat tattgctaatt cgaagcttga gagtgaggaa 60  
 taatcatggg tacaattatg cacgattgca aatatatgtc gagaaaatag ctaatagcat 120  
 atagtaattc ggcaatagga aatggcctaa gagcatatcc cttgtcggng aaccagacaa 180  
 taaacataat gcttgcttaa atgagatatg cttataagaa catccaagaa agaaaagcta 240  
 atgccaaatg tgactgaatt gcttacaaga attatgccta ttctgctaac atgaccatga 300  
 ataccaaagt gctacaagaa gcgggacacc ttgcatgtca tcagtaagct caactgagat 360  
 tctacgataa atcacatggg anaactatct ttaagcagaa ctcagcaaag 410

<210> 13278  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13278

agccttggtta ttactcaaga aaaggaagag aagaattggc atgtcataaa tgcgtgtata 60  
 acaaattattg aacatcagtt acaagaggaa ccctcttccc tggcccagcg tgaccctgt 120  
 ccccatccct atccctcacc actaatnttt ttttctgtta catacgtgat tgggaacaga 180  
 tacatcggtta tatgatagca agctatgcat atcaaagctt gagtcacatt tgaggggtat 240  
 cccaatcaaa cctgcgctgt gaatagacct cataatcaat tggcctagta tcaacaacgt 300  
 aatcaactgt gtgaatgccc tncaaaagag ttgggtgaaa actatcatta cttgaaggca 360  
 gtaatttata cacgactaat aattcaagag tgaatatagc 400

<210> 13279  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13279

agcttgactt acgcagnaaa aacgtggtgg ctgtcctcaa cagttttaaa agtataaatt 60  
 gatggttnta agtgtttaaa tagtgataaa atgattacta atggatgcta ccaagtttat 120  
 aacattatgt aaagaaaaaa ctaaaaattg aatgtgttta gggctctgaa aagctttgtt 180  
 tttttgtgta aaatgtaagt gttgctcaca aaaacagttt gaataaaaaa ggttgataaa 240

catagggaaa attgcgtgaa aagtggaccc aatgagcaac caaaaacatt gaaaaatcta 300  
atattaaatt cttttctagt tttttaagag actcatnttt cacacaatct ttactacgtg 360  
tgggtataag gactcaagct tgtaacaccc cgacgaatta caccaaaaag agaaggatct 420  
ggagtctgtg tatgta 436

<210> 13280  
<211> 244  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13280

atcactccta catctcatct ctagcatgca ttntctttct ttaccactc ctcacgtttg 60  
gttttttagg gaaaaacacc ataactaaac gcgccgaag ggatccctat cgcaccagat 120  
ccaaatctag aacgatgggt gatcaagaag agacgcatga acagatgaca gtcgacatgt 180  
cggctctgaa agaacaaatg gcctccatga tggaggccat gttangtatt gaacaactca 240  
tgga 244

<210> 13281  
<211> 389  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13281

agcttgtgag ttgtgacatg tagtactaca aataccccca ccatacctct tttcccgtta 60  
tcacaaactt tgtcgaatgc tattgctact ctagaacaat gatctttagt taatctacac 120  
tcaactgtaa ttccatcata taattacctt gcaaacccta aaatcagaga acattgagtt 180  
tgttgtagct ccatatgaag tagatgctca gttagcgcac atgtgtcaac ttggagtaga 240  
aaatggtgga gttgtagcgg tgatcacaca agatagtgat ctaatagcat atggttgtcc 300  
agctataaga actcctccaa tactgtcata tcgtgcatga aggtttactg gtcttttgat 360  
atctngatat atatactatn tcactatta 389

<210> 13282  
<211> 430  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 13282

agcttgaaga actttccaag aaagtcaccc cacgaacttg aattccactc acttaaagtt 60  
ttattacagc taggctatgt aacaagagct actctttttc ctaccttgac tttttatcca 120  
tataaaaata tgaagggtttt tgccgagaag gttttaatga gacctcatcc tacaaatatt 180  
atcaatgaag aaatatttca acaatcacac ttatgtcatt atattactcc tttnttaata 240  
ttgttcccc tagaataccc tctttggcta aggttaaact tcattaatca taattagtag 300  
ttccctcctg aataccctgt tgaactaagg tttaacttcc ttaatcataa ttaatagttc 360  
cttcctaaaa actctcttcg gctaagggtta aacttcataa taatcataat taacagtntg 420  
aattttcaac 430

<210> 13283

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13283

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
ttcacctgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120  
gctgggggca agtaaaatatt cttcccatca gaccttgat gcaactgtgc tcttataccc 180  
atatcagcta gatcttgacg ggtattcaag ccctccttcg tcttgccttg aatgttaagg 240  
agcgtcccaa taacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
ctaacgtcaa gatcacacca gtacggaaga tcaaagagaa tggacctctt cttcatatgc 360  
aactctgact tttatccttc ttttgngtct tcccaaatac agtggttcagg tgttgaaccc 420  
gctgatat 428

<210> 13284

<211> 266

<212> DNA

<213> Glycine max

<400> 13284

tgtttaaatg atgaggcata ggtatagaat gtcttaaact atcgcttcgc gtgtttatat 60  
 acatcttagt cttttatcat gcatactgat tgatgagatc tgaggcgggt gaagctttct 120  
 tattctctaa gtacgtaaga acttacttct actcgaactt tggctaccaa catcgatata 180  
 attgattgcc tcgtttgcta atcgaatgtc caagtcaatc tcagacatag gaaggatcta 240  
 taccttatga taatctatta ccccat 266

<210> 13285  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13285

agcttcacct ttttgtactc ctcatagtac gtgcatgaga atacatgctc tattatcatc 60  
 tcccactcca agtaggcctc cagatcattc tttcctttaa atggaggaat gttgagtnta 120  
 ataccatcca ttcgggtatc gctaggaaca ccatcattcc ctcttgtgct cttttcttct 180  
 tcattatgat ctctattctc catttgagcc aacctctcat ggagcgcac atcttgatgt 240  
 ttcattaacc tctccaaatg ttgcatcaaa gcttgcattht ggaattgcc gagccccact 300  
 catctttatg attatacctg aatctcaaca aacaatcaac cttacacaca atatagtgtc 360  
 gttgaatcct ccccatcaga gatcacacat tatg 394

<210> 13286  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 13286

agcttgatcc aagaagcacg ttcattgctc gtctggatct acctaacgtt gaatttgaa 60  
 atgaactgag ttacatgtaa ttcaaaaatg ttattgaacc atgggtgacg tattgattgt 120  
 taaacaatgg atcatataga caagatggac tacaaccttt gtcatttagt ccaattctct 180  
 tatcttctct tctatattgg tcatccaatc ttctgtaatt tgggtggagca cccattcgtg 240  
 tagaaaggaa cgtccactct agtgggtcat taacatatgt tgtgttgaaa ttgctactat 300  
 tatctattgt aacatgtttt cagtttagaca attaggtgtt gtccgcttta taaggagctt 360  
 agtattctac gattagagat cttgacatca 390

<210> 13287  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13287

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 aagagatttg gtacagacaa agagcaactc cttgcaagtt tccagttaaa gagatacatg 120  
 aattaatcga atacacactc taataagagg atgtagaggt tgtgcaagta tgagagtgta 180  
 tagtgaaga taaagatcat ggaaggcctc caaganatgt agaaagacct aagatgaaga 240  
 atcctttaat tagactaaaa gaacttgtga atgggatgat tttagagaac aaccccatgg 300  
 ttgggctgga aataccaaag agtgaagag taaagagtcc aaaggagaat tataggttat 360  
 caacacatta catggtcaag cctaaaatgg aagaaaatag tccatggtgg tgcattgtga 420  
 a 421

<210> 13288  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 13288

agctttaacc tcattgtctc tcacaatctt tagatttggg agccaatcca atccttgtgt 60  
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 tctgtccttt cttaacgcc catcccatgc cttgcaaact ccttggagta cctttgcatt 180  
 ggggtcactg aaaccccgta taatgaaagg cgtgatgctt ttgtctaata gcgctcctct 240  
 catggggtag ccaagctgtc ttatggcgag gacatgatta taatttatac aacccttgt 300  
 tcccatgaag ggaacatgaa gatagaatct tgattcttcc ttccttctag tgagggaacc 360  
 aattaacaga cgccctctta tgctagccaa gagttggtcc caattcgact atctttct 418

<210> 13289  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13289

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agcttggtaca gttaaatata ccaaggtgct gtgctgaaat aagactaaca atntgtgcat 60
aagcttagac gagcccttgc agttcataat cagtattttg tagatgtcta cttgcgcatg 120
catatactat agttaaacta ttatacagat gatgggcata aacttattga agcctaaaga 180
taaagagtat actgagtgcc tgngtggtga tgtgctaggc taanagcacg gaatttggtg 240
cccttgggcca agttgtttta gttcacttaa cctgggttgta cagtgcataa acaagtcttt 300
actcatttaa gaaattatta caatgtgtat atgctagtta atatcttgag ggtttcgggc 360
ttccaatac aagaataaag aatcagctgg taaacttgat 400
```

<210> 13290  
 <211> 397  
 <212> DNA  
 <213> Glycine max

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<400> 13290
agcttatctc gttgaacgaa agacatccta taagtacatt gcataaggta catgcatcaa 60
ttaataggta ttttatcatt atggactttg aactttttct gtctccgaaa gtggtcaata 120
agtgaacata tcctatatatt tcatttggtt ctacagcaaag tctatcagtt cctctgggaa 180
tggtcaata tagctttcca taatgcccaa ctgtttaagg aggactagta gaggatatca 240
accgagttcc cattgtcgag taggaccttg cacactagga agtttgccac ctatatcttg 300
atgaccatcg gatcattgtg acatctttca atgtccccga aatcctcgat tgtgaaaata 360
ataggcggca tgctttctaaa gacctatttc tcattctt 397
```

<210> 13291  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13291

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ttccttagca cccttatggt caatacatc gataaataaa aatagttttt tttttgctat 120
atgcatgaga gtttcaatgc tagttgtcac acaaatgtat tacacaaaag tacctatcac 180
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ataaagagtg gctatgcaat ttagaatgca tcaagaagtt ttagattgtg tggctacatt 240  
ctttggaacc aaaggcaatg catcgaanaa ttactacata cccatatcta acggaattt 300  
ctattttctt ggttggctnt tctgaggag acgtcaccac atgttatgca ggatggtgga 360  
agcagtcaat attgtatcat tatcatgaat ttgcanagaa tattactcgg tgaaagagct 420  
gtatatacaa tgatg 435

<210> 13292  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 13292

actgggatag attctgaata gtttgccagc cgttttggat ggctatcttt atttaaagga 60  
atctgtccct catattgtat gcacaaaatt aatttggag ctgattacaa gctcgtgaga 120  
caaccttcaa gaatgcttaa tcctagtatg aaagaagaag taagaaagga agtcctcatg 180  
ttgc 184

<210> 13293  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13293

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tggtacctgg agatatgtcg cgggggtcag gagaccttg ggacgtcagg tggggtgcta 120  
ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgagaa 180  
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tatgtggatt 300  
gtggcctctg gtaatcgatt accaaggcgg ggtaatcgat tacaaggctt aaaaatgaag 360  
acagggggct aagatgggtct ctggtaatcg attaccat 398

<210> 13294  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 13294

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tgaacgaaac tcagtttaag ttagtctaaa cctaagaggg ctgtctaaat tgggtgtagt 120  
cttaaagtga ggatctacgg acgaagcctg gatattcagc ctgacgaggg atcgaggggtt 180  
tagtaattta ggctacaaca tagaacacaa gagcatgatt gattagagaa atatatttat 240  
atgcatcggc ttgtttgtta gaaagaccca acatatctac ctattgttgt cattttatag 300  
tgtttagcat acaagtttag tttaaattct atttgaaatt atcgcttata catgttctct 360  
caacaatgct tcgattctga acttaattca ggctaacatt agtccctgt gtgcgatact 420  
cggattca 428

<210> 13295

<211> 314

<212> DNA

<213> Glycine max

<400> 13295

agcttctgtt ttcaattacg agcgtctcga tatattatgg gactgaatcg cacatccgag 60  
tcaaaagtta atttcgtttg aatttgctta gagcttatgt tttcaattac gagcgtctcg 120  
atatactacg ggacacagat cgacctgcga gtccaaagtt attggcgatg acatttgctc 180  
agggcttctg ttttcaatta cgagcgtctc gatagattac gggactcaat cggagatccg 240  
tgtaaaaaga tattgtcgtg tgaatattct cagagcttca gttttcaata ccaagcgtct 300  
cgatatacta cggg 314

<210> 13296

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13296

aggcgaatca gctcgtactc gagatactct gagtgacctg ctgcatgcaa gctntaccat 60  
cagaatttac atatgcttca ttaacagaaa ttaccatcca cttaaagtta gcaatgagcc 120  
attaacctac gaaattaaaa gaacttaaat gggtgagtgt aattgaaatt gtggcaacca 180



<210> 13299  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13299

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agctttatca ttgaataatt gactttgacc aaagagaaga gagaagaaag aaggaggaag 60
aaaagtcaca gtttcctccc ttcttccttt ccaatagtaa tagctgttgc taacaataaa 120
aagggtcacc cacacaacca ctttctccct catcatcgct cgctcaatcg aggtcttctc 180
gatttccttc tctacaacac aacacaacac aacgctctct tctcttctct tgcaacccaaa 240
ttacaacttg ttccactctc tactactcta taaggtaagc ctttcttttc cttctttcac 300
tcactcatac ataaaaactt ttcactctcg cttcttttcg gtggctcttc ttctgnntag 360
atccaagttt caaactttct ttggttatgg atttggcccc gaccaccct ttcttc 416
```

<210> 13300  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 13300

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agcttggtgc ataaaaatat attaattggg tgagtgaaaa agttttgatc aatagctccc 60
ttgggtatag ttcttaggaa acttgacaaa aaaagtaaga ttgataatta gttacgtgac 120
gggtataatgt ttacttattt gtaagaagag ccttagtagc aactttccaa atcacaattc 180
tacaaggtgt tcatgtgtcc aagaaaagtt tattctaaaa ttacaatatg tcagtatgaa 240
ttcatgatat catataaatt tgatactcac ataaagttaa gagtgaatgt ttgaaagtta 300
gcgggttagct tatttatggt cagatttggt ctgaaacctt ctaagacatc atcttataat 360
tgttactttg aatattttaa caataaatat aacacccttt gactgccc 408
```

<210> 13301  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13301



caagctaaca tacttagaaa tcaagtgatc atgtattccg aaatataggg ggagaaaacg 60  
gatgcacant ttatctataa acaattgttt gttgcttgct tgaatcttga tttcaggtat 120  
tgtattgtca tcatcaaaaa gggggagatt gtagatgcaa ttggctntga tgttntgatg 180  
atgatcatga taatgtgttg caattgatgc aaatgggctt ttcaagatta aaattcaaga 240  
caatacttca agattacaag gcacaacatc aagatgatca ctagaatatt angaagggaa 300  
ttcctaattg aattagcaaa ggtttggcca agtgaattan aataaaaagt ggttttcaaa 360  
ggttttactc tctggtaatc gattaccaga ggatgt 396

<210> 13302  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13302

agcttgcatt tggaattgcg aaagccccac tccatcatta ggattagtag ctgacatctc 60  
aaacaaacaa atcaaacgta acaagacaat tatagttggt gtttgaatac ctcacccact 120  
caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgctt ttaccactct 180  
aattcccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240  
caatatgtgt caggtaaggc tagagagaca aggaaaagg taaccaagaa aaaggctaac 300  
aatgtattga ataatatatt gatgatgtcc attangaaat gtcg 344

<210> 13303  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 13303

agcttttcga ttcattctat gtaccgtag tggccacat tgtgttttgt gcatttttat 60  
tctcgttttg tttacttttt ataccctc ttgacgtgct taagccattt tacttaagtc 120  
atztatcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180  
gttaactgcg gttaaaataa attccgaccg tttggtcgtg ccgtaaccac gttggaaatc 240  
aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300

aaatcaatcg gacgttgtct ctctgggatg tctcattctt aatcgaattg attaataact 360  
aaagtgaaac taaaggctaa aatcaattcg cctagtcaag ctctgtcccat aaaat 415

<210> 13304  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13304

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tatcagatac tatactagat ggctcaccct ataatctaac aatctcactt atatacaggg 120  
aagtcaactt ctccaaggaa aatctgatat taataagaat gaagtcagca gacttgggtca 180  
gtctatcaac aataacccaa atagaatcta aacctctagg ggttctaggt agtcctacca 240  
caaaatccat ggaaatactg tctcacttcc actanggtat ctctaaagat agtaactttc 300  
ctgaaagtct ctgatgttct atcttagcct tctgacagat taggcatgca tacacaaact 360  
cactaacctc tctcttcata ttgnngccac caaacatcat ctttaaactcc tgatacatct 420  
tgt 423

<210> 13305  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13305

agcttatgct gcanacatct acaacagacc ttctcaacct cagcagcaaa atcaaccaca 60  
atagaacaat tatgacctct ccagcaacag gtacaatcat ggggtggagga atcatcctaa 120  
ccttagatgg tcgaatcctt cacaacagcc gcaacaacaa ccttattttc aaaatgttgc 180  
tgGCCcaagc agaccatacg ttctgtccacc aatccagcag caacaacagc aacagccgca 240  
gaaacagcaa acagttgagg ctctctcgta accttccctt gaagaacttg tgaggcaaat 300  
gactatgcaa aacatgcagt ttcaacaaga gaccagagct tccattcaga gcttaactaa 360  
tcagatggga caattggcta cacagttaaa tcaacaacag ttccagaatt ttgacaaatt 420  
gccttctcaa tctg 434

<210> 13306  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13306

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgatgtg gatgatttct 120  
 ccagatttac ctgctcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
 agttgagtct aacacttcaa agagaaaagg actgtgtcat caagagaatc aggagtgacc 240  
 atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa ggcactctc 300  
 atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaacg aataatatga 360  
 ctttgcaaga tgctgctatg gtcattgctnc atgccanaga acttccctat aatctct 417

<210> 13307  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13307

gcttgtatga cttgagaagt ttcttcacag gtgtttcttt tatacttctc accgatttgc 60  
 ttccaacgaa tntaattcta tctaaaaaaa tcttcgggtcc gtataaatgt tctttttctt 120  
 tgcttgctta tgattatggg tgttcataca ccgatttggg gttatatatc tatatatgta 180  
 tatatatata acaacaacca ttcttttctc gctgaacgtc ttcttttctc tctttgatat 240  
 gatgaaacgc actaccttgc tgatatgttg tatttcaata tttggggatc agttctggtc 300  
 atatattggg tgatggatct tgaaatgtta acatatctct ttatatattac gtttaacaca 360  
 atgtcatgtg atttcaacct gctgaaagac atgcatgaca 400

<210> 13308  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13308

agctntaacc gatcggttaa gccgttttct cacctaataa atgataaaat gaatttcaac 60  
cgatcatttg cgttgtaate tcatttaate actgttaaaa caaaatctaa ccgatcggtc 120  
acgctgtaac ctcaagttaa caaaataaaa gcaaaataat aataaaataa tcaaaatate 180  
ttgaaaaaaa ataataaaat aatcaaaata tctttgaata aaataatcaa aaaaatcaat 240  
cggacatttt tctttggaag tttccttgga tcaattaact aataaccaa gtgaaactaa 300  
ggctaaaate aatntacaaa tcatagtttg tccgtaaaaa tcaactaaaag accattttaag 360  
gtccaacgcc ttagacgggc ctctntgctt atatcggtta acatggaccg ttcaaaagca 420  
t 421

<210> 13309  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13309

agcttgatt taanaatgtt ntanaaatac ttttaattaa tatttgaatn tttattcctt 60  
tattaatata tatgtgaggg gtagaggggtg tcacaataac cacacgcagt ggttacatag 120  
attgtatgtt ttagttttgt tttgctattg cctgttggtt gtggcatttg aggaagggag 180  
gactcaccct tgcaaccacc attttagggg gaggtcatgg agcatccaca gaggatgttc 240  
acttgatca atagctaccg ctacaactac acgatggagg aagaagcgct cctccacaca 300  
cactttgggtt acatctggtg ccactntntg ttgttagatg agcctangat accatcgatc 360  
accgtagaga cacacactac gtatcacttg taggtcttgg taatgacaac tc 412

<210> 13310  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13310

agcttgtaa tacttcaa atgatttgaca catttaatta atttatgata ccaagttagt 60  
aataataaat ccttaaaatt agaaatgaaa aatgaatta aatctataag gttgactcat 120  
ttaacctact aatggagtg agttggaatt tccaaccact ctcaaaacta gactcaatct 180

agcttttttt ttttgggaag gtattggttg aatctattga aacaaaactc tttttagaag 240  
 cttaagtttt aatgataaca aacttttaag aagtaaatta taagttatct aaagagatgg 300  
 tttgctttga gatgtgtttt aataagacag aacttgatca taagcataaa gaaaggtgtg 360  
 aagccttttag aatggaaagt cttttanaca tagattcttc ctattaaaaa taggactacc 420  
 a 421

<210> 13311  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13311

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 tattagatga tagttgatag ttgatagttt tagagaatta ttttagaaag aagactatgt 120  
 cattgatttt ttggatgatc aattacaaca taccaattgc ctatttatag gctcaagtca 180  
 ccaacctctc aatggcgggtg aatgtttcta cattacttta ggtctttcta gagttttcat 240  
 gatagtacta gattcttcta tcttatacat acacttatag ttctagattg ttctatcata 300  
 tttatacaca ttatagttct agattgttct accatattca tacacactat atttaagaat 360  
 attctagana tttatagcaa tttcaacact cctccttgat gcanatttct gtgactccga 420

<210> 13312  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 13312

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 ttaacctagg gaattaaaaa aaacttaatg gctgagtgta actgaaattg tggcaaccaa 120  
 aagtcacccc caacagccaa caagtcagcc accatttggc ctcccaaaag gctgatgcct 180  
 atgttgccaa ttgggcccctt attacaactt gaactaaacc taactaaagc ctttttagtt 240  
 gattaacca aaacatattg ttggtcagcc aactttacaa ggattgggccc attatttaga 300  
 caaactaaac actctaaaat cgagacaagg tgggtgcatt tagtcctcct ccattagggc 360

catgatacaa ctcacaacct tggacttttc tccttgaaac

400

<210> 13313  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13313

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aaacaatcca aaatttttgg cttctggttt tatgtcaata catcaaaatc ttatgtttta 120  
cttgtgtcat catgtaatgc ttcctctact attgattcca taaaacagaa aaaaaaacac 180  
taaaaaatga aacctaatat catcaacaac ataaaccaa atttttggct gctgggtttg 240  
tgccattcc ccacatttga tcttcgatga tccaatctac aaatctcccc cccgcccccc 300  
ataaaaatga ataaaagaaa gaaaataaaa gaaacttcag aaaccagttc agaaagaana 360  
aagcgctaaa tttaaaatcc aattgaaaaa ttaaataatga agaaaaatga 410

<210> 13314  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13314

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tttagaaacg aacccccttt ggtaaattgt ttgtaaaaca agccctgtac ggtaaatttg 120  
ccgtgctttg aactatttca taacaaataa atgaattaaa caaaaacacg tgtggtaacc 180  
ttcttttcag tctaggactc taagggagcc actctttttt ccccttccta gtnggatttg 240  
ttgctctcga ccaaagcaga aaagtaaagc tgaatgggga ataaggaagc agtataataa 300  
ggaatcaaaa ccaattcttc acatcacatc cattgggtnt tttttttnt tgtcctttcg 360  
ttggttaaga attagatatt acatcccttt gtttgtagtt aaaaaataat ttttaatt 417

<210> 13315  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 13315

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cactatgaga ttgaatgtct gatttgagtg gatgcaagtt cttgttactt catcctcact 120  
aataaatctc acagtagcac gcacactgaa agctcacgtg tactctctgt tattgcctga 180  
gacaattggt agtcgatgaa tacaactagc ttctgtgtat aaaacatgtg taaattgaat 240  
caaacctcca ccatatatgg atgctttgta ggattataaa tactttttgt taagtacttg 300  
taatagacac ttaatactt 319

<210> 13316

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13316

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ggccgagtca aaggccgagt tcgagtccaa cgcgctgcaa ggccctgttg tctcggaac 120  
gagtcangga agcggcgagt acttcctccg agtcggaatc ggaaagccac cgagtcaagc 180  
ctacgtggtt ctcgacaccg gaagcgacgt gagctggatc caatgcgcgc cgtgctccga 240  
atgctaccaa caatcggatc caatcttcca cccgatttcg tcgaattcgt actctccgat 300  
ccgctgcgac gagccgcagt gttagtcact gtacctctcc gagtgccgca acagcacgtg 360  
cctctacgaa gtcttctacg gtgacggatt ctacacc 397

<210> 13317

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13317

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gtatatcgag acgttaaata ttcagaatag aagctctgag caaaatctaa cgacaataac 120  
tttttactcg gatgtccgat tgtgtcctgt agtatatcaa gactctcgaa attcagaact 180  
gaagctctaa gcaaaatcaa atgacaaaaa aattttactc ggatgttcga atgaatcccg 240

taatatatgg agacgctcgt atttgaaaac ggaagctctg agcaatatca aacgacaata 300  
 actttntact cggatgtctg attgtgtccc atagtatatc gagactctcg aaattcataa 360  
 cagaagctct gagcaaaatc aaacgacaat anattttaac tcggatgttc gaatgtgtcc 420  
 cgtagtatat ct 432

<210> 13318  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<400> 13318

gccggagagg tcgatgatag ataagaacta ccggactcga atatgttatg ggagattgtg 60  
 tttttacatg gagtactatt atacaagaca ttgtgacact ttttacttgt gatgacgagt 120  
 atgtagctgc aacttcttgc gcatgttatg ccgttaggct tagaacatag ttggacgaac 180  
 tatagttgtt g 191

<210> 13319  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13319

cccaccgcac ccccaatact tatgtgagta ttaacaatgg tgtaccccat tntaattcag 60  
 gatttggnng cgtttgaagc tgtgagacat gaaancaggc gaacactagc cccgggatgc 120  
 attaagacgg ctgcagtctg ttagctntta ttataataac tgactcacca tatakctaga 180  
 cgctaggtga gaacgacaat ccttaccctt tgtagcaaat aacaagagga caatgaccat 240  
 atcccatcat agacgaagcg aaaaaacaag agagatagat aatatccgat caaaggaaga 300  
 aagagaggaa aggaaattcc catatagaga gtgggagaag aacaaaataa aaggaaacaa 360  
 ggaaccgagc tcttggcaat gatcaaagaa aacaatgaaa taacaataag gttatgggca 420  
 tacaaaatcg aacaattcga tagtaccaaa gaacaaaaaa gatatggagc catacctaga 480  
 gtggcatctc ctatgatacc acaatatctg gcgaagaaat atacctttgc gatagaaaaa 540

<210> 13320  
 <211> 91



<212> DNA  
 <213> Glycine max

<400> 13320

atcttacagc gacgcagctg ccgctttttg gagctaggct ttgctcactc actcgggtca 60  
 taggtaagct cgatctcctt gtgaagcttg c 91

<210> 13321  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 13321

agcttctggc tgagaagact aagaagaagc tggaggaagc tgcatagtca ggaagcgttg 60  
 atggcgctcat cgaccctcca tcccccgta gacgccacgt gaagtggag atggcccga 120  
 ccaagaaaac aggggagatg acgactgatg ccgcaaagga aattgcttaa acaattgtaa 180  
 gtcattttca actaaccatt ataattatat ttcaatattt tgtgaatgcc atgtacaact 240  
 gtgtcttttc tgtgcaggat tcctttgagg agcaagtac acaaggatcc ttcatccac 300  
 atggacgtca ggatgttctc actgctgcta ttggacgtcc agagcaccct gtacgtgttc 360  
 atgctgctgg agccggtgtc accatcaagc aat 393

<210> 13322  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 13322

tagcttaaca ttatgatcaa atttatctgc ttcaaccagt tacagaaatg actggtcaca 60  
 aagtaatcac tatatcataa ttgatggata ccaatgtaac cataaatgtt atacattcac 120  
 agtgaatgaa agcacctcac aacaatgtaa tatatttatt gtcacataat catcaacaat 180  
 gctacaaatg ctgataacac atttactaat tctatcgaat acaccaaagt tgttattcct 240  
 aactgatgat taagcctttt tacaccgcat ttctctatgc tcttaaaaat aagatgtcca 300  
 tttcatgcga attgttgtca tgggtgtcctt gtcaatggca tccatcacca aacctacaa 360  
 gttatatata taacagtagt gatgcagata ataaattgag tcaactgata t 411

<210> 13323  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 13323

agcttaaaga gccagcatat tgggtgccatc gccttatgag tatgcaagaa cgtattatct 60  
 accataaccg agtcgtgatg agacatcata aatcataaat aataatagta attgtacgta 120  
 gagagaactg catcgaggaa aacatgatgg atgataactc aatgtacatg tggttaactg 180  
 gaattatcat attacctcgg cttgagccca aagattatag atgtacaatg atttgctcga 240  
 ttacagagc agagagagga catacctcga tcgtaaagga tacctatgga agaatggatg 300  
 ataggatgac tcttatccga cg 322

<210> 13324  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 13324

agcttgatg tccttctttg gctgtgagaa ggagttctca tccattacat ttgcagatgt 60  
 aagcacagtc tctgttgacc cagataactg caatgagttt ggttccagtc catcaagaga 120  
 gactttgagg ttcacggcag tggtagcgaa gttcacaacc tgcaaaagtc aattgattca 180  
 gattgatgac agtgctaatz aaagcataaa tggatgctct ccattttactt tatccaccat 240  
 tttctccatt cctatcgctt ttataagata ttgggaaaat aaataaaatz gaaatgatac 300  
 acactttatz ggaagtaaca ttattctttt tccaaagctt attgatggaa taatggagag 360  
 gacccaaacc caatgacagc atttagagca caacaaatct a 401

<210> 13325  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13325

agcttgata atggctagac atgatacatg tcanggtttg gtttggttca aggataaaag 60  
 ggatgccccca cattatttcc atgacacaaa aatgcaaaaa tgatgatttg gaaactttat 120

gcaaaactgg tcatgcatgc acctatgcgg acactcaagt gtcaaatttt tatggtcatg 180  
 tgatgctagg gctcangatt catttcctct attttaatca acccaatggt tccaaaatat 240  
 gttcttttat caatttgtgc attcatccga gtccatttcg ggcgtccggg aaaatcttca 300  
 cagcattcac ccttcaggtg tatacacatt ntttcaaag ctagttacga tcagtgaatn 360  
 tntccataga aaagttggaa atcgtctctt ttanaagcat gttggtcttt 410

<210> 13326  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13326

agcttacata tgaaggtctt gtaaaatttt ctgctcgggt atcaatccag gtaattggat 60  
 atacccaaac ccaatactga aatctctgat ttagtaattg gtttctgagg acaaatatga 120  
 caaaccaata ttgtaactta attacataag agactaatag atttctatga caganagaaa 180  
 acataaagtt cttattgaat tgatggaata aaaaaagcca ccaatgtag gtgagctgaa 240  
 attatttata cctatacaca caagcactta accatagtgc acttataatt agttctaaca 300  
 gactagtaac taactgtaac caacagagaa caaacaacaaa atacatttgc aatgtatatg 360  
 gtaatggaca gtattatgcc ttgaaagaa catgcaaata catgtggctg cttagttgta 420  
 gacatgtttt 430

<210> 13327  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 13327

tttattgttg accacagagt ggtacctgga gatatgtcgc gggggtcagg agaccttggg 60  
 gacgtcagggt gaggtgctat tgcccaaac caaacttgac caatcccaac ccaaccggg 120  
 catagtcgggt cagtgagaac ctgtgatgta cctaagcaag cgaactcctg gcagtcaaca 180  
 gataaaagga aaacaagacc acaaagcaag gaggccttggt gtggctggcc agctgtgaat 240  
 tttgtgtaat atgtggatgg tggcctctgg taatcgatta ccaaggtggg tatcgattac 300  
 aggccttaaaa tg 312

<210> 13328  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13328

agcttgaaat gaggaagtgc ggaaggggtga gacttccttc ttttattgtt gaccacagag 60  
 tgggtacctgg agatatgtcg tggggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcag tcagtgagaa 180  
 cctgtgatgt acctaaacag gtgagctcct ggcagtcaac agataaaaga aacgaagacc 240  
 acaaagcaag gaggcttgtg tgggtggctgg ccagctgtga actttgagtg ttatatggng 300  
 tatggcatct ggtaatcgat taccaagggt gtctaataca ttacaaggat taaaagttaa 360  
 gacaggaagc taagatggcc tctggtaatc gattaccaa ggtgggtaat cgattaccag 420  
 gctta 425

<210> 13329  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13329

agctntccca cagtcccaaa tgacatttca aactaggatt acctcactct aatctccaat 60  
 taccactaaa tccagatttg gctttttcaa tctctaaagc atcacacttt tccactcata 120  
 tcactacatt ctactttttt aacctagggt taactctacc ctacatctct atcagttttc 180  
 catcagccat ttcagcacac aagcatcaca agcatcatca taaaaaccct aaaacagaat 240  
 gggtaagctt gactcatacc aaacattagc atgtttttcaa caaattttctt cacaataaac 300  
 tatcataagg cataaaccta gtaaaactac ccatacatcc tcccanaacc caatacccac 360  
 gaaaatntat gtgagaagaa gtctacccaa acctgaaatg tgaagtccca caatggag 418

<210> 13330  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13330

agcttgtgta ttcaatatct tgatgaggat gttccatattg ttctcaagac tggactaata 60  
catttgctgc ccaagtttca ttgtcttgca ggtgaagatc ctcataagca tcttaaggag 120  
ttccatattg tctattccac catgaaaccc cctgatgtcc aggaagataa tatctttcta 180  
aaagcttttc ctcatctctt ggaggaagtg gtgaaagatt ggctgtacta ccttgctccc 240  
agggtccatta cgggctggga tgaccttaag aggggtgttct tagagaaatt cttccctgca 300  
tctaggacca ctgccatcag aaaatacatt tcaggcatca ggcaacttag tggagagagc 360  
ttgtatgagt actgngaaag attcaagaaa ttgtgtgcaa actgttctca ccact 415

<210> 13331  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13331

gaggctntgg agagtngagg ctctaccac aagaagggtg gactccccn cacaacttaa 60  
atctctgatt taataatacg tgtctcacga caaatatcat aaaccaatat tgaaacttaa 120  
ttacatacaa tactattcga ctattatgac ataaagaaaa catacgatgt tcatatgatc 180  
gatggaataa atcaagtcac ctatgttaag agagctggac ttatacatcc tatgcccgcg 240  
agcactgtac ccttgtgaac ttatgattaa ttctatcata cgagctacta acatgagcca 300  
acagagcaca gacctctaac acataggcta tcgatatgga aatgggaacat ataatgcctt 360  
tgaaataaca tgctaaaaca gtgtgtgctt aattatacac atgatctgct ccg 413

<210> 13332  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13332

tagcttattc tacacctact agttttattct taatgggttc taaaataaca tcaagcttaa 60  
aggggttaaa agccaacacc tatattnttg aatgtcagga tacaagtttc aaaactaaaa 120

ttttacatct tatcttagtc ttgtaaaaaa agaccatata tttaattctg aacagcaaag 180  
 taatcttaga tagaaaaaga ataatcggaa tggaatgaga tataatgttc tcataataac 240  
 agctcacctc tgtaacacca ggcagcatta ttctctgta tttaatctcc ttaatttgta 300  
 tattatcttt tgataaatca aatagggtccc tatataagac gatagagtta ttttgaagac 360  
 ttcanaaatc cacattcaaa actactttct tcaatgttta aagtgtgagg tatagtctca 420  
 catag 425

<210> 13333  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 13333

gaaatagaac caaaacatat atgtaattaa gaaaataacg catagatgat caaatattat 60  
 tattttgtgc ggtataatca aaggcataga aaatgcatac gatgagttga atccgcagaa 120  
 tcaagcactg tgtattaaat tatgtgctac ttcacatata gtcgatatgt taatttcaaa 180  
 gagtcaagtt ttgagctgtg agtattatat acgatgaata aagaataacc ggccgttgct 240  
 cgtaaacaaag gccgtacaag tatgctgcag ccgtatggct tgcacttata acttcgaact 300  
 gcgcagtcga attgcttact gccacatat tgaatgttag tggtagacta atatttcata 360  
 tcattgacaa taattagctt actttggaga tgaattaatc cttactctat actac 415

<210> 13334  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13334

agctntgatt tttatctaca aacaagctgt gatatttatg ttgaacacgt atgttttctt 60  
 tgatttttat ctacaaaaaa gcttgattgt tatctacata aaaactttgg gtttatatat 120  
 gtatcattgg gtaactttgt tttttcgcaa ccataagct taaatttttt tgggtgttct 180  
 gcctttatat tttttttccc ttttaacacta gctaaagtta tttgaatggg ttatattctt 240  
 ttatttgtct gtcccttttag ttagacactt ccagtttgat attcaaatat atgacagtgc 300  
 tttatatcac atatatgaca ttctttgtct atgtcttatc tttattatca aata 354

<210> 13335  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 13335

agcttctgtc cctgagaaac tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60  
 ccctagactt gcaacaagtt ctatggaagt agacacggag atggacaaga taatccgcag 120  
 tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180  
 atcgtccacc ccaagtgttt ctgtgcctga tgctgagaaa gatgttccaa catcctccgc 240  
 tccaaatgct gaagccttcc cttcaccag tgaagaggaa tcaacagatg aagaggatca 300  
 agccgcagag gagaccctg caccacgggc accagaatct gttccagggtg acctcatcga 360  
 cctggaagaa gtcgaatctg atg 383

<210> 13336  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 13336

agcttgcttc aaagagggtc aggaaggaca aggcggccga aggaactagt tccgctccgg 60  
 agtacgacag tcaccgcttt aggagcgtg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcgtt tctccgggag cgacgcgtgc agtcaggga cgacgagtat actgatttcc 180  
 aggaggaaat atggcgccgg aggtggacat cactggttac tcccatggcc gagttcgatc 240  
 cagaaatagc ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgagatcctg tgtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc 360  
 tgggatatct gttggtgttg ga 382

<210> 13337  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13337

agctttttatt ttgatgataa gtttagatat cctgagaatt ctgctcatgg tcaactccca 60  
agaacagtgg atgtaattgc agaagacgac cttgntgatt cttgcaagcc tggagatcga 120  
gtggcaattg tggggatata taaggctcta gcaaggaaga ggtagtgtga atggagtatt 180  
taggtagctc cagacaatat actgacataa ctcctttgca cttgcttgct ttcttgaaca 240  
gaaacttgat tgactgattn tcatgtanga ctgttctcat agccaacaat gtttctcttc 300  
tcaacaaaga ggataatgca ccaatctaca gtgttgaaga tgtcaaaaac attaaagaga 360  
tagctactag agatgatgca tttgatctgc taagtgattc acttg 405

<210> 13338  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13338

agctntagtc aaacagaata atccgaaaat gtcaaagaat tgggtgttga anaagcataa 60  
caagactttc tgtgattggg ttaaagatac aatctttgca gatgagaatg cttcagaaac 120  
attaagaang ctagcagatg ggcctaaaag aaatgttata acctggcaag gatacgacat 180  
aaacaggtat tcattttaca caaaagcaca agatgacaaa agtacaatgc agaacagcgg 240  
ggtcacccta agggctgaat ctcaacactt tgcaagtgtc<sup>2</sup> aatgatgcca atccctgtgt 300  
agcttccatc ccttactttg gggtcattga tgaaatttgg gagcttaatt atgtgaaatt 360  
tacagtatgt attttcaaat gtanatgggt tgacagcaac accagtgtgc gcaccgatga 420  
tat 423

<210> 13339  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13339

agcttgaatg gatgtatctt ccaaattaaa gtaatgaaat gtagagaaaa ggaacatttg 60  
caacataatg agaagataat ttgcagtcta aactcaaac cacttttata atacttgatc 120  
cgtttcagaa tatgtcattc aagataattg cacaaagatt aagaaagcca ctaattagtc 180



tcaattatca taaaatataa tttatttcct ttttatcaaa atattggcac tcctgactcc 240  
 actaatgccca ttgctatctc tcattccact tggtagagat aagagagaca aagatatagt 300  
 tgggacaana aaaattcaaa ctttaatttt ctaaaatgac agat 344

<210> 13340  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 13340

agcttggcctt agcgggaaag gatgcgctaa ggcaccaatat cattctgttt tgaagtcatt 60  
 ggaagtgcgc ttagtgccagg tagtggcgct aagcctgaat cactcactgt aagttgaagc 120  
 ttgatgtacg ctaagtcttg catctcaggc taagtgcata ttgcagaaaag atttttggtg 180  
 ttgcagaaaag cgctaagtgt tgttggtgcg ctaagcccca aatgcttact ggaagttata 240  
 acttcaggtt gggcttagcg cgaggctagg ctaagcgcta gtgtttcaaa ctcaaagtgc 300  
 acgttggcac gcta 314

<210> 13341  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13341

agctnttcat aacactgaat ttgatttctg ataattgatt actaagggtca caagatcata 60  
 tgaaggggggt aggataaaat cagttttatat tatgaagtgg ataagaacca cagtacatac 120  
 ataattcaca gaaaaatgtc tcattttaaatt ctacaaggca aaacaacatt tatcacttat 180  
 atttcatttg ccataataag tgacaaaaca aattatgact aanaacataa tccagacaga 240  
 caataatagt cttgagggaa ccaatatcaa tatcaacata caacacactt gggtaaataca 300  
 tcaagctagc ataactacaa aaccaaacat ggtgtgggtg tcattatgaa cctttaattt 360  
 caaaacanaa atgaaatatg annagtggat aatggcatat gaatctcttc actgtaacaa 420  
 ctgaccaaac tac 433

<210> 13342  
 <211> 430

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13342

agcttttctca taagtcctaa atgacatttc aaactaggat taactccctt taacctccaa 60  
ataccactaa atccagattt ggctttccaa ctatcaaagc ctactcttt ttccactcat 120  
aacatcacat tctcactttc taaccctagg ttaactctac cttcatctc tagcagtttt 180  
ccataagcaa tttcagcaca taaacatcac aagcatcatc ataaaaaccc taaaacagaa 240  
tgggtaagct tgactcacac caaacatgac aagttaaaca tgctttcatc aaatctcttc 300  
agaaataact atcataaagc ataaacctag taaaactacc catcatatct ccanaaccc 360  
aatacccacg aaaaattatg tgagaagaag tctacccaaa cctgaaattn tgaagtccca 420  
cacgtagaga 430

<210> 13343  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 13343

tgatggattg cccagtgcac caattccttc caagtagtaa agttaaaccg gaagtcccag 60  
tgtcgaattc acatggactt tgcttataat taggtagatg aatattttat taatacaaga 120  
accaaagaaa attgtgtgaa aaaggctatg aaaaaaatag taatttataa tgatagaaaa 180  
ttcaatccaa caagaagttg attaaacaag aatctaaatt aattacttaa aacataactg 240  
agaagaaaat ccagttatta tagaagttaa attctaaaga tgagaatggt gggaacttag 300  
cctactagag ctactatttg atgtgatggt cataattttt ctctatgtat agatattcca 360  
atttacac 368

<210> 13344  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13344

agctngcctg gtacatcact cttaggtggt gcattcatct taccaagccc ctcatgagc 60

agtgtgttag gtacttgttc ccaggttcaa caacattaac aactccatac tcaagtttcc 120  
 ttatatattc tcccatgctt ttacctcaa cgcatgcata agcttgtata ttgatgaatg 180  
 cccaatagcc aatataacct tctcagtttg tgaggccaat tcccttggtta gtgacattgt 240  
 taaagcatga aaccctgtca aaaattaaaa aacaaacacc ccatgtaaat acctagacaa 300  
 aaaaatctaa natataacgc actcagtttag atgtgaagca cacacaaccc ttttaacaata 360  
 cattcttaga atatgtttga atggaggaat ttagagagaa atagcacana tgat 414

<210> 13345  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 13345

taagcttgag tagtaaaatg tttcaaattcc tatacatggg actgctacag attgtcggta 60  
 acaagtattt gaaatagttt agcgcaagat taaaaaatct atgtgggata cagttacttc 120  
 taatggagca gatgattttg aaatgactgt ctagaatttc ataactatta ttttatcact 180  
 taatcagagc ccaaattcatg tttatcaatt tttagattct taactagaat tagttatagt 240  
 tttgattaca taagagatcc ttacaaattt aatctctcat tcattataat tatataaagt 300  
 ttctgactga aaccagcagg aaaactctcg atccttgaaa caccttgagg atgaaatgag 360  
 tgggtccatta tctccaatgt cacttctgc accaaagcaa ctcatattca ctctggagt 420  
 t 421

<210> 13346  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13346

agcttgaatg tcgcttttgt taatcaagtg ttactttatg catttgtaga tattaggctg 60  
 ctgtcgatta ttttgcattg cgatgaatga gtcagattcc gaagcattgc atccagaaaa 120  
 cgaattatag aataaacgct ttcactgtac ggtccttatt caagagtctt tctaacaatg 180  
 agtagtagta tattaaacat aattcactat aaacatattt tgactctcat tataattatc 240

atgtaatgta atagaaaaaa actattccaa aataattatt attttaacat cttactataa 300  
tattaattat tctttccttt atataactta taatattaat gattgatagt aaaatctata 360  
aatanattaa taatgacaaa attaatttca t 391

<210> 13347  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13347

agcttgtcat ttatcattac tcaactcagt tctctctcca ttattcatag gtcaagtcac 60  
tatgatgtat taaaatgttt cattgcatcg cgatgatttc gacacataat tgtgtctatg 120  
atattttatg gcgcgatcac cctaagagat gattgagttg ggcctaattgt aataagacag 180  
tgatcagact aagaccttgt aaggaagatt gtggatcaga acataatccg atcttagagg 240  
gtacatagtc cctcagcctc aaacaagaga tgtgcagaga ctaagtgtgt tgagatggaa 300  
atacaatctg atccaagaga tacacagccg cctagtctca gtatgagatg tatagagact 360  
aatggtatag ggattagagc acgacccat cangggaggt acatatt 407

<210> 13348  
<211> 401  
<212> DNA  
<213> Glycine max  
<400> 13348

agcttgtggc ttgttcaatg ctctgagctt aaaccttgaa ggcttgctgc ctctgaagtt 60  
tcttctgtga gcgtagaact cgctcatggg cttggaagta ccggagtggc tgtaccaagc 120  
ttgtgctacg gctatcagaa cttgcaagtc ttgtggctcg tgttggtgtt cgtggatctc 180  
tggactcttc ttcattggcac tgagaaaacg ttgtcttcat gaggaggcca tggttatgtt 240  
agatactatc gtggaaggaa ggcctcacat ctgacatatg aagcagacgc aacttctttc 300  
tcctttttct gtcactggga aatatgaatg cttttgtct ttgttatcct aattcttgtg 360  
accatgaggt tatatctgac cttgagtaac ataataagaa t 401

<210> 13349  
<211> 410

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13349

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ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttggt gatgatttct 120
ccagatttac ctgngtctac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc acgagtgacc 240
atggcagaga ggttgaaaac aacaggttta ctgaattctg cacatctgaa ggcactactc 300
atgagttctc tgcagccatt gcaccacaac agaatggcat agttgagagg aaaaacagga 360
ctttgcaaga ggctgctagg gtcattgctc atgccaaaga acttccctat 410
```

<210> 13350  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13350

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cagattgtca gattgattgt gaaggaatgc attaaccata tcccaatgag agtgtgatct 120
ttaaattttg agagaaacga atgtcattta gtactgattt ttgctggaat ctctgaagta 180
tggaactgaat gcatgaaatt gatgatgatg aagcccatgt ttgattgtga tagccactta 240
gccaaaaagc taaccatgtg tttgaatgaa ttatcccttg tactcagttt gagctaaatg 300
aattattggt tgattgaacc ctaagcctat acagtgttat ctcttgctac cttgacttan 360
gtttagtagaa agcatcatcc acaagaagc 389
```

<210> 13351  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13351

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gctcaattgc ttcaggttgc tgcattgaag ggcaaaggct tgtatgggtgg tcaacaaaag 60
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aacaccaacc acaaaccctt gccacaagga cagaattctg aatcaagggc cacttggtta 120  
 ccaaagtaac caatggcatc aggttggcctt caagcttctt aatttcagat gatgcagatg 180  
 gggttgtaac taccctcatg cactccttta atgactatgg catcatttct tgcgcttaac 240  
 tgctgggagg ttgaagccat cttctcaatt aaatntcctg ctttcacang agtcatgtct 300  
 ccaaggctcc accactggca gcacttatca tacttctctt catattactg agtccttcat 360  
 aaaaatattg gagaaagaag ctgttctgaa atctgatggg tggggcaact tgcacatcag 420  
 ttcttn 426

<210> 13352  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 13352  
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 caatggcggg aatgacggac cgaggcataa ccgggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccaaatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatctgcc tgcaatgact aactgatgc gaaaaagtc aagctagcag cagctgaatt 240  
 ctccgactat gcccttggtt ggtggcataa ataccataga gaaatgttga tagaggaacg 300  
 gcgagaggta gatacatgga ctgagatgaa aatggtgatg agacaaaggt atgtgcccac 360  
 tagctataac agaaccatgc gacagatact ccaagggctg tccaaggga ctctaaccgt 420  
 cgaagaatat tat 433

<210> 13353  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13353  
 agcttgcaaa tctgtntaa gtccaagccc ataaataaaa taaaatctgg gcaagataag 60  
 ataagatttg ataaataaaa atctagatga aataaaattt agataagata agataagata 120  
 aaatctagat gaaataatat ctagatgaga taaaatctgg ataagaaaaa atttgataaa 180  
 attgtctgct ttcttcaagt ctaagcccaa ttccagattc aagcccaatt gcttacaatt 240

ctcctgaaat taaattaaac acacaaaatt agtcaagtag gcccaaatga taaaactgca 300  
 taattaattt gacaattaag gctaataagt aattaaatg gtgacaaaaa gggttaagaa 360  
 ataggagaaa atgatgacac atcacacacc taacatgcat aatctaattt ttnttaatca 420  
 ctag 424

<210> 13354  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13354

agcttgccctc anagagatcc aggaagaca aggcgggtga aggaaccagt tccactccca 60  
 aatatgacag ccattcatttt aggagcgctg agcaccaaca gcgcttcgag gccatcaaag 120  
 gatggtcatt cctccgggag agacgtgtcc agctcagga- cgacgagtat actgacttcc 180  
 aggaagagat agttcgccgg cggtgggcat cgctgggttac ccccatggcc aagttcgacc 240  
 tagacgtagt cctcgagttt tatgccaatg cttggcctac agaggagggg gtgcgagata 300  
 tgcgatcttg ggtgaggggt cagtggatcc ctttcgatgc ggatgccctc agccagttct 360  
 tgggataccc t 371

<210> 13355  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13355

agcttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60  
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tccttccttt catcttcaac cttgttcttt caaaccacaa ttccagaaaa 240  
 tccacttatg cccagaatta tctcgtggcc ataactcccg ttttacgcac tcaaattaag 300  
 tgattcttga gcctaaattg aatttcaaga cgagacatnt tcacctcgtt tggaatcacc 360  
 tcatttggag ccctgtagct tggagttttg ccatttctat 400

<210> 13356  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13356

agctntaatt tcaaagtatt ttttttttaa tttctcattt cagttactct ctattcatat 60  
 ttaatttatt ctttatgtga taattagatt gatggtatta aaaaaatgaa gatgacaatt 120  
 ttaaatacat ataaaatgta atgacattag catgtcctta atgccctcat tntatttcag 180  
 atgccaagat caaattaaat taatttttaa aattaaaaga ctttaattgaa cataaaaaat 240  
 aaattataag acaaaaacct aataacttat tttttgtaat atttcattnt tttcatatta 300  
 ctaaactctc ctaagaaaat gtaggttaa gtaacgttnt aaattttcta atccttaatt 360  
 taattatggg ttcaagaatt gtagatacca atttaatggg at 402

<210> 13357  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13357

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 ccccttatct ctaacacatg gaactaaggc cgacctctag ccttagtttc atattcagac 120  
 tgaaactgac gagaacctct ccatgaattt gtggagtgcac tcattctcgt cctgctgaat 180  
 gtttgtagt gcaactatag gcaagtggg tgctttactc atcatgtact gngctccaaa 240  
 atgcacaata agtgtcatga aagaatctat cgagttcctt ggcaaacgaa tgtaccagt 300  
 gagtggtgaa ccccttaggt tcattcangaa tacttggcac attatgacat catcattcgt 360  
 gaatagattc atttgtgtaa ccgatgcac tatatgtctc tctggatccg a 411

<210> 13358  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 13358



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 cgcttataac ttgttggttt cttttcctac atctaatttt ccttgaagta gttttttggt 120  
 tattaattta ctatttagtt gattacatat cattatgcta ggaaaaggat agtaatatta 180  
 ctcttctaaa gtatgggttat tgaaatagta ctagtataca gcatgaaacc aattaaatca 240  
 attagactgc actactaagt aatagcatga cataaagtat cattagtatt attattatta 300  
 ttattattgt gaatacattg tctta 325

<210> 13359  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 13359

agcttcgttg caagccagtg gttggaggag aaggctggat gatgaagttg atttgtggag 60  
 tgcataatca tgaattggcc aactcattag ttggacatcc atatgtaggg cgattgactg 120  
 aagctgaaaa aacaattatt actgatatga cgaagtcctat ggggaaacca agaaatattc 180  
 tgctaactct gaaggaaaac aatgctaata gttgtacgat cattaaacag atatacaatg 240  
 caataaatgc atttcgttct tccataagat gaagcgatat tgaaatgaaa catttgatga 300  
 agcttcttga acgtgatcaa tatattcatt ggcacagaat aaaggatgaa gatgtggttc 360  
 gtgatatctt ttggtgtcac cctgatgcag tgaagttagt caacgcatat 410

<210> 13360  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 13360

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 tgcacaggct aaagttgagt atgtgaaaag attgcatgac caagtgaagg cacaaattgc 120  
 aaagaagaat gaaagctatg ccaagaaagc taacaagaac aggaaggaaa tgatacttga 180  
 accaggtgat tgggtttggg tacacatgag gagggagagg ttccctaaac aaaggaagtc 240  
 caaacttcaa cctagagaag acagaccttt ccaagtccaa tcatgttttc ttattaatta 300  
 gtgaattatt taacactaat agggcttaca aattaagctc tgtgtagttc tcatgtgtgt 360

tataagctta tagccttttag gaatctgaga acacaacttg aaatgatata t 411

<210> 13361  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13361

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tgcatttctt tcttttaaact gttttcttgc attcttcctt gttttctctg ccaaagcatc 120  
agctactctc tetaaccacc gcactgtcaa agcacaccaa aactgtgtgc aatttaatta 180  
tgcaacaatg actctcctcc ctttcctcac tttcaatatt tgtcatcaat tntagaattt 240  
ccttctgttt ggccatgctg ttgcgaaacg gtggcaaaaa aactctcatt cgcagcgtta 300  
gaaaactctc ctttgagggtt ctcacctaaa gccctccgc tgaagatgaa tcggatcccg 360  
ttgattctgt caaccgcat tctgcaagaa ggtgagtga gcaatgtat 410

<210> 13362  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 13362

aaaaatgatt gatgttaaaa cttcagacta aaagtctaaa gaataaattt ttcacattta 60  
agacacaaaa tatgagaaaa tattatcact gttagcagtt tacgtacaaa gtaatcaagc 120  
ctgccatgtt cccagaaaa ggaaagtcct ggctaggact ttctatatca ctgattcttc 180  
tgtacaaaga tgtgctacca tgagccagaa taaaaatatg atagacaata atgaagtaca 240  
aaatatatca taacaagtag gactacaaag aaagatatat gtacagctgg tctaagttat 300  
tcaagagaga gatatttgat ggaatgggtc cctctaatacc acttccatgc atttctc 357

<210> 13363  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13363

ntctaaagtt ttctggtttt ccaaaccttg aaaataaaag ttgtttattc atctttntca 60  
 ttcccttctc cctttgccaa aaagaattcg ccaaggacta accgcctgga ttctttttgt 120  
 gtctctcttc tcccttttcc aaaagaacta aggactaacc gcctgaattc ttttgtgtct 180  
 cccttctccc ttgtcaaaga attcaaaatg acacagtctg agaactcttt tgattcttcc 240  
 ctttcccata aacaaaagat ttcaaaggac taaccgccta agaattcttt tgtttccccc 300  
 ttcacaaagt ttcgaaggac taaccgcctg agaactttgt cttaacacat tggagggtac 360  
 atcctttgtg gtacaagtag agggtagatc tatttgggtt attgtgactg agaacaagag 420  
 agggtagatc tcttatggat cagttc 446

<210> 13364  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13364

tttaagacaa tttttcctga aatttggggg agttggtttg atggataatt ntaaaggtaa 60  
 gaaacaacaa cacacacaac aaattaataa aatgttttat gtgttaaaaa aaaaggagag 120  
 aagttcaa at aaagtgtgtg tgctgttaga acaaagtcaa gtgaaagact agtgagtaag 180  
 ctaagtggat tgaaaagaca aattgggtaa gtctaggatt tgtgctctct tagaattcaa 240  
 gcttttgc at cctagaaaaa ccaatatntt tttgtagccc agcctcacta caagctaata 300  
 aaagtccttc tgattcaatt tgtgcatttc aaactntatg gcatgagatg aagtacaaag 360  
 attggacctc ttgttagtta ttattgctaa atagct 396

<210> 13365  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<400> 13365

acattctatt gccgggtcga tgactcactg aatcgaacat attctccacg tttgctatgg 60  
 agtgtaagct ccacttgaaa cgaactgact gaattatggg agcgattgat ctaatcccta 120  
 ttatgtatga aagctgcgac tgtgggcac c aaggactcct tgtaatgcct gacatogtct 180

gataatcgac tacacttata ctgactcgct atgat 215

<210> 13366  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13366

tccacaacat ccaggtaatt ccacatgcaa tcatcatggt ctcaactttac caagcaaaac 60  
aggggcaaagg cagaaaaactc tgcccaaaac acaactcaaa atcacagctt ttcacatata 120  
aataccccag taacgtttcc ttcgttccaa ttcgttaacc gttggatcga ctcgaaaatt 180  
ttactggcag tctctagtac ataagtctac attttgaccg ttgggatctg ctagcaaattg 240  
ttcagaaccc gatatgtact acccttttca caaccagcca tacacaagca tttttctgca 300  
cttatacaaa attctgttgc acatttcaac agcanaattc tgcataaagt gcagatttcg 360  
aaaactactc ttgccttcat ccaattttgc ccaaattgaa tcctacaagt cccaaatcat 420  
gtaccaatca tg 432

<210> 13367  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13367

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aaaaaagggtg tctgtcattc atctcaaact actgtttatg tatttttatg catgcaagca 120  
ctcactgca catatataag tngttgacta gttattaatt ttaattaaaa cataaccata 180  
tactataatt tcaattatatt attgtaaaac taaaataaaa ttatatattt aaaaatattt 240  
atttattata attataaata tataaaaact gtctatcaac ttgtggaatg tataaactac 300  
aagttagtat attaataaag agaaaatata catataatat ataactctgag acatgatatt 360  
ttgtcaatga aaactaataa tataaaagta tgtgattttt tattggaata aaatatatag 420  
tttttaataa aattatat 438

<210> 13368

<211> 331  
 <212> DNA  
 <213> Glycine max

<400> 13368

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 tgctattgcc caaaaccaag cttgaccaat cccgaccag cccgggcata gtcagtcagt 120  
 gagaacctgt gatgtaccta aacaggcgag ctctgacag tcaacagata aaaggaacat 180  
 agaccacaaa gcaaagacgc tgggtgtggtg gctggccagc tgtgaatctt gtgtgatata 240  
 tgggttatgg cctctggtaa tcgattacca aggggtgggtc atcgatcaca atgcttagga 300  
 atgaagacag gagactaaga tgggtctctgg t 331

<210> 13369  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13369

tccaggaatg acaaggcggc cgaatgatta tttccgctcc ggagtatgat agtcaccgct 60  
 ttatgagcgc tgtacaccac cagcgcttcg aggccatcaa gggatggtcg tttctccggg 120  
 agcgacgcgt ccagcttatg gatgacgagt atacagattt ccaggaggaa atagggcgcc 180  
 gacggtggac atcactggtt actcccatgg ccaagttcga tcaagaaata gtccttgagt 240  
 tttatgccaa tgcttggcca acagaggagg gcgtgcgtga catgagatcc tngntaaggg 300  
 gtcagtggat cccgtttgat gccgacgcta tcggccagct cctgggatat ccgttgggtg 360  
 tggaagaggg ccaggaatgt gagtatggcc agaggaggaa ccggtcggat gggtt 415

<210> 13370  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13370

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 aaagtgattg tggtttgaat ttgctcacgg cttcgggtatt ccatttcgag cgtctcgata 120

tattacggga ctcaatcga catccgagta aaaagttatt gttgtttgaa tttgtctaga 180  
gcttcggcat tccatttcga gcatctcgat atattacggg actcaatcag acatccgagt 240  
aaaaagctat tgtagtttga atttgctcag ggctccagca ttccatttcg agcgtctcga 300  
tgtattacgg gactcaatca gacatccgag taaaaagtta tagtcgtttg aatttgctca 360  
gagcttcgac attcaatntc gagcgtttcg atatattacg ggactcactc agacatccga 420  
ctaaaaag 428

<210> 13371  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13371

ccctcgtaa tttgtatatt tttattcaat gacaaatddd atttatggta aagccgnnaa 60  
tcatgataat aattactttc tttaaaaaaa aactttgata ataattatct taaaaatcat 120  
ataaataatt atatgtaact aattgatagt gtaaaagcta ttaacctaac aatacatgct 180  
tattaactct taaaaattgg taaaactcgc tagaaaaccc aatcataatg gttgaaaaaa 240  
gacgaagaac taatattgaa taattggccg gcttcaatgg tttcttttca tttgttttta 300  
tcttttatga tatttaactc aataaaaaat actttgtaac tagaaaaagg ttaaattgtca 360  
agttacaaaa ggctgtgtct gagaattacg tataaaatat tatcatttac catattatta 420  
ttacgtagtt atcat 435

<210> 13372  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13372

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cgtgagatga gactgatcga ngccgtaccc gaatcatata aacatgagaa tgcagtaact 120  
aggaagtgat cctaggtcgt ttcccaacga gcagtgacaa accaaatggt cataatatac 180  
ttgcagtaac agtaacgatt gggggggggg tgtttggact ccctccttat gccgattatc 240

ccctgcnnta agactatgaa gaagatgccc gtttatgccc tttactgccc ctcaaggatc 300  
cgccccctca tgaa 314

<210> 13373  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13373

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agaaaggccc aagttccaaa gagttctgag agattttgct gtgtgaagat ctgcagagac 120  
gagagctcga agtggaagcc attctgaaag cttgagaaga gtttatgagt gattgtgaga 180  
tcctagaggt gaaggagaca tcctcaccac ttgtattttc gcaatctttc attntgctct 240  
tctttgtgtt gtaaaggacg tttccagact atggaaagtt aaatcctcta ttggatcttc 300  
cctgtaggta cgtgatgtaa atatatttct atctatgtaa tgatgttctg tgtgttctct 360  
gcgctatctc cttatcattc atgtatgcct tta 393

<210> 13374  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13374

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cttggtctaga actatgtgat atgttgtttt tcttgaagtt ttatgtttta aaatgagttc 120  
ttaggatgtc aaaactttga gttagcctta aatttcactt aaatcgaagt tttctagcaa 180  
aagtgaaaaa acaaaaacaa tttaagcata tttttagga tttaaattgt cacaaaatta 240  
aaatggatcat aatgggttgta tggactaaat ttcttaaata tttgacttca aaaatgagtt 300  
tgttaggtgt gaaaatcang gtactatcag accctaattc tatcaggaca agtttctcaa 360  
gaaaacaaaa caaaacanaa aataatga 388

<210> 13375  
<211> 356  
<212> DNA

<213> Glycine max

<400> 13375

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agaatcacca gaagacatcc tactgaagaa caatctttaa aagataaccc attaccagct 120  
caagaagata tcatgaggca accactaaga caagataaca agcattaaca actatatttc 180  
aaattcaaat ttgcaagct gtatagtaga aaatagtgga aaaatgtagc acccgaaggt 240  
gagaagctgg agaagttgga ggataaacia ttgacataca gatagatgaa agggaagctc 300  
atgcagccgt gaatgtgttc gaaaatccct ctaacatcca tatgttgga caaaat 356

<210> 13376

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13376

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ggagaaacct ttgctatgac tgccattcct acacgggtcaa atttctgtc agcccaacia 120  
tgtcattact cagccaataa cagttcctct cacccaataa tccacaaagg ccatcccaaa 180  
tcatccacia agcctgcccg ctgcacatcc agtgccaaaa caccaaccaa aaaggaattt 240  
tgtagcaaaa agcctgtagg attcacccca aattctagtg tcatatgcca acttgctctt 300  
atatctactt gataatgcaa tggaagccat aaccctgcc aggggttcctc aacctccatt 360  
nttccgagga tacgactcga acgcaacatg tgcata 396

<210> 13377

<211> 396

<212> DNA

<213> Glycine max

<400> 13377

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ctgcaacccg caataaacctt aggcggatat agaaacacga cgggtgttcgg tcggaggtat 120  
agtctcaag cttaacctta tggtttgctt ccagacttca ctccccgtac cgctccagac 180  
gatttgaacc aagcccctac cttcgagggg caactccctc cttatgccga ttatcccctg 240



caagaagacg atgaagaaga tgcccgtcta ggccctctac tgcccctcaa ggatccggcc 300  
 ccccatgaat tgccccaacc aaacatagtc cgccatgtcc catctccacc cgcacccggt 360  
 aaagaatctg ttccctttgc ataagatacg gaaaga 396

<210> 13378  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<400> 13378

catggctcgt tctgcattga ctagtggata ctgtcggtag aaaaacttgg attgttttgt 60  
 gatcctcggc cataatggac cgtgtttgag tattactctt cctttataca aaagtataaa 120  
 ttctatgcta ggttgtaatc tcttcctga ggaaaacct taggccggag ctaatttgcc 180  
 tcggttgacg atggtcagct gggttgactg gacaaagatt tctaggttct t 231

<210> 13379  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13379

gggggggggg gaccacagcg gcggcttgaa ggaanaccaa angcccagac cgccagcagg 60  
 ggctnananc ccaaaccata cttaccacga tctcctcgtg tattgatcaa gctacttata 120  
 tcgacggact atgtgcctaa acccatacaa gggtcataac aggcccccat cataactctg 180  
 gccataaata ccacagcatc ggacagacaa cgctgcccac agatggactc cactgctgaa 240  
 atgct 245

<210> 13380  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13380

aagagaggat tcacaacttg ccagaatnct aactcttggt cttgcatctg atactngccc 60  
 ttgacaagga actcagtcac tagatttgct acgaagttaa acacctctac tgcacaacca 120

ccacacagcg atagtgggtgc tcctacgtag aaactggctt cataaaaaata accaatcaat 180  
cctcttcatt ttagtatttt ctggataata accaccgata actaagaagt acaaatgcag 240  
gaaatgatgc aactaattta tataattatg ttacctaaga acgcacgtgt gaaccttcac 300  
catttcaaat aaccagaaac attgaaatta ttttagattg cacatcaaca agtaataacc 360  
gtacttcaaa tctttctagg actagtcatg catatataac atttagttca catgtgagaa 420  
aataaataga actagtaa 438

<210> 13381  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 13381

gaacttagaa actcagcttg aatctctcct ttgggtggac atgattctct atgttttcat 60  
gggcgacaag catacaacaa ttacagttag attatctgat gtatttaggc gcaatgcttc 120  
cttgactagc tctccggcac attgctgtgg gtcacatgc cttcttaatc ctcggcgaac 180  
aagactaact gcaacttggc tagacattac atcccaaadc ccatcacacc caatgatcaa 240  
gaactcatca ccctcagtca atgtaaccag ccgaacatct ggctcagcaa taagagggga 300  
tgcagcacca agtggaaatt tcaagtccca atccccaagg gctcgagtta ctgaaagata 360  
accattgaga tatccatcat caatgaaccc acctaaactcc tccaccctcc tcttctctgg 420  
tagataactt ggctgtgat cattagacat ctcaaca 457

<210> 13382  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 13382

tctacttatg tggcagggcg ggcttgcttc actatcttgt tttcaacgcg agttttgacc 60  
actgtgcttc cttcccgcca tggcttcttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgtcttt 180  
gcctaaaccc atccggggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
tgcacggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300

aaaagactgg aaagtagttt ctaacgattc ttctacggct tccacataat gcatggagga 360  
 tgggcagctt accaagatgt cttccttgcc tgacacgatg 400

<210> 13383  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13383

cccaccattn tctcatagta gaacactggt tatgtgccta ctatcattgg tatcatctgc 60  
 ctctccatca ttggcgggcg tacttgagtt gtcatatccc tccatctttg ggcgtatctt 120  
 ttaaaaaatt cgtgctcctg ttctgtagct gcattctatc tggagtcata tcagaattgt 180  
 actaatactg cctaacaaag gcaaccatta agtctttccg agaatggatt tgggaagggt 240  
 ccaaattagt atatcagatg acggctaccc tagtaagact ttcttggaag aaatgcatca 300  
 acaatttttc atctcttggt tatgctccaa ttntcctgca atacaccttc aggtgattct 360  
 tggggcaagt tttccccttg tacttattga agtctgacac cttgaacttc ggaggaatga 420  
 ccacgttggg tact 434

<210> 13384  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 13384

atcaattctt catttaaadc gtgttgatag atatcaattt cttatatgca aattaattta 60  
 ttttaaata gaaattacat taaatttata aaacaaccat ctatttaaaa taataaaaaa 120  
 tttttaattt aataattaaa atataaaaata atatttaact aggatttgct gaccacaaca 180  
 ggattttaat acataccagg tattttcgca ctcaataatt tt 222

<210> 13385  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 13385

tcctcacgga acacgttacg gaagcgtttc ggaagcgcct cggcttagat tttattcacg 60  
gagacaatTT ttccaagcat attcgaaaga gagagatttg cctaacgggc tggacccctt 120  
cctttcttcaa ttcctcccct attgatagca aaatacggga ggtggttgcc gccagctcg 180  
cccaagcgag ctcatctcgc ccaagcgagc acggttgctt actgcagaaa caaccgcctt 240  
ctggaggaat tttctggatg gcccaaat 268

<210> 13386  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13386

tcttcgtaga gcggtggcatt acggagattt cnttcgtaag cttttacgga ataactggtt 60  
ctgtaacaag tgttttacgg ctacggaaga agttctttcg taaaaaattt actgaagaat 120  
aacttcttcc atatgtaaca gatctacaca aaaaaacggt aaaatgcgta cctccggcga 180  
aataaaaaaca acaataacaa cagcaaccgc caatatTTaa ccttcaccga atgactacct 240  
cgaaaaaact tgtaaaaacc acccagaatg gcacaaacta gacgacagtg aaagaaagaa 300  
agtgtaaaac tgtaaaaaat tacacaggcg tcgtatatTT aaagaataac gagacagagg 360  
aaaaactggc attttataaa aat 383

<210> 13387  
<211> 177  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13387

ataaccacc tccctgtgc cactccaatg actcacgtac tgccacgtac ccatatccgc 60  
gtactataac accggggcgc atagacctnc aaggtttccc aacatccaat aatacgacat 120  
tcaaacagca cagattatca cagcctacaa aacttggtcaa ggagaaaacc tttcaaa 177

<210> 13388  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 13388

gatcgaccac tttcaagctg aactgcaaac atatttagca gtgtcaataa ccatggaatg 60  
gaacagttta tgcatttgaa caattggagg cgtaattgag agactgtagg tattataatc 120  
agataaagag ttggctgtca tggacatctc attgggggct gttatcacct aaacttctaa 180  
cgtggtaaaa ataataatgg aaattccaca agacactagt ataaagcaga atattttgat 240  
tctgtggagt tggtttcaga gatacaaaga aatattaaaa tctaccaaatt tgcacaaatt 300  
gtgaagtagt gactcctagt aatatgcact cttagacac tagacctcaa tggatatatg 360  
aagtttgctt tggttactga tttacaagtc agtgggaaggc ggaacaaaca ctacacttca 420  
aggaccattg atatttgaca 440

<210> 13389

<211> 452

<212> DNA

<213> Glycine max

<400> 13389

cttgatgata tggctttcac cgacgaaagg atcaaagtga gttcttataa aaggcaaadc 60  
tgatcatcat actttgataa atgcacaaaa aactagggca aataaagagg gtgaggatga 120  
aggagaagcc tgtgctgtga ctgccattcc tatacatcca agtttccac caacccaaca 180  
atgtcattac tcagccaata accaaccttc tcttaccaca tccccagtt atccacaaag 240  
gccatcttta aaacaaccac aaagtcttcc gcaacttcaa tgacgaacat cacctttagc 300  
acaaacaaag agcaccaacc aagaaatgaa ttttgcagcg agaaagcctg tagaattcac 360  
cccaattcca gtatcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
cataacccca accaaggttc atcaacctcc at 452

<210> 13390

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13390

tgtacattca atttcgagcg ttccgatata ttacgggact tcttcggaca tccgagtaaa 60  
aagtaattgt tgtttgaatt tggtcagagc ttcaacattc aatttcgagc ttttcgatat 120

attacgggac tcaatcagac atccgagtaa aaagttattc tcgtttgaat ttgctcaggg 180  
 cttctgtatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaattttatt ggtgtttgaa tttgctcaga gcttcaacat tcaatttcaa gcgttccgat 300  
 atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga atntgctcag 360  
 agctttctaca ttcaatttcg agcttttcga tatattacgg gactcaatca gacatccgag 420  
 taaaaagta 429

<210> 13391  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13391

agctgtcatg cttatatggg catcnggacg gagtcttttt gttcgcacaa gnctatcgca 60  
 ggggggttgta acattgtggg ttatgacata tgtcacttag ttgaagccaa tggccatgcg 120  
 agaggatttc gagttccggg ggagaaaata tagggacttt tgtatcacta atgttcattt 180  
 tttctccac gccctcactg atcatatctc tacgaatcct cagtcttgga tccgcacgac 240  
 tatgtaagac aatgctcgca cgcttatatg ttgcctgatg ggatgctatc gaccatatca 300  
 aacagtctat agatctttcc t 321

<210> 13392  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13392

acctaggctg atgaagacnn ctantattca aaatgctgct ggtttgcagc ttctcccaa 60  
 aagcctttgg cagtcttgca cttagaacat gcacctcact ctttcaaaat ggtcctattc 120  
 attctttctg ccaaaccatt ctgttgtgga gtgtgagggga ctgttttgatg ccttttgatg 180  
 cctattttcc tgcaaaactc attgaactgc tctgaaacaa actccaggcc attgttagtt 240  
 cttaaaactt ttaattttgt accaagtcca tttccaacaa gagtatgtca ttctctgaat 300  
 ttttgaaaag cttccgactt atttttcaaa acatacagcc atactcttct tgagaaatca 360

tctatgatgg tgagaaagta tgagcttcca ccatgagtat tcaactct 407

<210> 13393  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 13393

tcaacatcag accacttcca ggggtgctgga atacttccat ggacttgatg gggcctatgc 60  
aagttgaaag ccttagagga aagaggtatg cctatgttgt tgtggatgat tactccagat 120  
ttacctgtgt caactttatc agagaaaaat cagacacctt tgaagtattc aaggagttga 180  
gtctaagact tcaaagagaa aaagactgtg tcatcaagag aatcaggagt gaccatggca 240  
gagagtttga aaacagcagg ttactgaat tctgcacatc tgaaggcatc actcatgagt 300  
tctctgcagc cattacacca caacagaatg gcatagttga gaggaaaaac aggactttgc 360  
aagatgctgc tatgggtcatg cttcatgcca aagaacttcc ctataatctc tgggctgaag 420  
ccatgaacac agcatgctac a 441

<210> 13394  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 13394

tctacttatg tggcagggcg ggcttccttc actttcttgt tttcaacgcg agttttgacc 60  
actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgtcttt 180  
gcctaaaccc atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
tgcatcggac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300  
aaaagactgg aaagtagttt ctaacgattc ttctacggct tccacataag gcatggagga 360  
tgggcagctt accaagatgt cttccttgcc tgacacgatg accaggtgcc cctccactac 420  
gaatttcagc ttt 433

<210> 13395  
<211> 353

<212> DNA  
<213> Glycine max

<400> 13395

cacatagctt catttcattg atttgcacca cacacactta aacactttta tttatactta 60  
cagttttttt ataacgaaaa caatgtgtat atactgctct gttttgacca ttttatttct 120  
taccagctct ccccaaaatt tgggacaaat ttgctttaac atataactcc cccaaatttt 180  
ggacaaattt gtcttgaacc aagcttttct gtggatgatg ctctcctaca agctaagaca 240  
aggtagcagc agataaaaact gtatatgctc aaagttcaat caatcaatca atcattcaac 300  
tcaaaactgg gtgcaaggga taaatcattc aagcacgtgg tgagcttttt ggc 353

<210> 13396  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 13396

cgtgttcttt gaaagatccg tccccctttt tgcaaagtgt ctatagttgc atcctatccg 60  
gaaccatata aaaattgtac tgatactgcc taacaaaggc aaccattatg tccttccaag 120  
aatggactcg ggaagattcc aagttagtgt accaggtaac agctacccca gtaagacttt 180  
cttggaagga atgtattagc aattcctcat cttttgcgta tcccccatc ttctgacaat 240  
acatcttttag atggttcttg ggacaagtag tccccctgta cttgtcaagg tccagcacct 300  
tgaacttggg aggggtgatg ata 323

<210> 13397  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 13397

atcctttcac ataaaagctg tgtgtaatcg attacactta tttgtaacc aattaccatg 60  
gatagcctct gaacaaaatc aaaagatgta actgttccaa tagttttcaa gctcttgtga 120  
aagacatata ttttccaaat ggctttcaag gttttgtcac aaggttataa ctcttctaata 180  
agttttcttc actagacttg agagtctata aaagcaaggc tttgatctgc aaacaaaaac 240  
tttgtctaac aattcttttag acaacaaact tttgccaatc tgatctctaa atctctttga 300



acttggttctt cttc 314

<210> 13398  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 13398

aggagagagaa gttgaacttt gatgcgcatc tcacaagttt cacattcatc aaagttacaa 60  
caagtgttac acatgcttct atttatagcc taggtagctt ccttcataaa cttccttgag 120  
aagcttcctt cagaagctag agcttagcta cacacatcct tctaataagct aagctcactt 180  
ccttcatatg agaagctaga gcttagctac acatacacc tataataagct aagctcacc 240  
tcatgctaaa atacatgaaa atataaaaaa gtccctacta caaagactat tcaaaatacc 300  
ctaaaatata aggctaaaac cctacactac tagaatggcc aaaatata 348

<210> 13399  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 13399

gagttatcat gatatttgaa ttctctacaa cgacatgcaa actggtcctt ctggggtggg 60  
attaagagat gttattacat gcatgctcag gtaagggtca acaaccaaca tcaagcatta 120  
gattttttcca aaattaaaaa gtattctgtc acatagaata gaatgataga aattatgatg 180  
ttagccgggtt ttcttttaat tgacgaagaa agcaaataca agagaaatta tatatgtatg 240  
tcacctcaaa ggaagcatcc tgatgttcac cccgctcatt gaaagctttt gaagcctata 300  
atgcatgttt atcacaacaa ttaattaacc aaaaagatga aaatctgttt gaaaatatat 360  
tgagaaaccc actggtcact cac 383

<210> 13400  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13400

gtccatacca ggcactaagt ctagggagaa ctcaacctct ctctcacgtg gtaatccgga 60  
caccttaaac acctttggaa actccctcac caaagggtata tcaactcagag gggttttgcc 120  
tcaacactca tactagctaa gatcatgtat acttgtgcat cctccctcaa agatgcctca 180  
acctgggttag cagacaaaaa catatcactt tcaactcacac caaaagacaa cagattttctc 240  
aaaatagttt aataaggcgt ggttgaaga taaccagtcc ataccaagaa taacatcaat 300  
ctgactcana ggtaaaacaa ccaaatacaa caaaaactat ctatcagaaa ttaagatagg 360  
acattgcaag cacacatcag atgttaaaac agaccact 399

<210> 13401  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13401

tgatgataaa agtgagaagt acgtgtgtgt gggttacgtc tcaatatcca gngggtacaa 60  
gctctatagt ccaaattgta gaaagatcgt cataagtcgc gacgtggagt tcgacgaaga 120  
agattgttgg gattggagtg ttcaagaaga taagtatgat tttcttcctt attttgaaga 180  
agatgatgaa attgaacaac caatcataga ggaacatatt acaccacctg cctcaccgac 240  
accaaggctg gatgaaacaa gttcaagtga gaggacaccg cgactaatga gcattaaaga 300  
gatttatgag gtaacaaaaa acctaaacga cattaacctc ttttgtcttt tgggtattgt 360  
gagcctctat gctatcaaga agcgacggga aacataaagt ggaagacgcc atggacgaag 420  
acatcaagtc aatcacgaag aatgat 446

<210> 13402  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13402

tgacttgggt ttagacatga ctgatacatg attngggact ttgttgaatt gatttgggca 60  
agattggatg agaggaagtg tgaatttcga aatctgcact ttgtgcagat ttttgctgtg 120  
aaattgtgca gcaggatttt gcacacgtgc agaaaaatgc tatgttttcg ctggttgtgg 180

aaagagtagt gcagaatgag ttctagatgt ttgctagtag atcccaacgg tcacaatgta 240  
 ggcttatgta ctatagactt ccagtaaaat tttggagtcg atccaacggg taacaaattg 300  
 gatcgaagga attgttactg gggctcttga gtgagaaaag ctgtgattat gggttggtgtg 360  
 ttgagcagag ttttctgcct ttgccctggg ttgcttggct gtgatagctt gtgctg 416

<210> 13403  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13403

tatcctgggc tccttggtgg tgagctgcta canactcttc tttccttgaa tggcattatc 60  
 tctgtgttcc ttctccattc tactaccatt catcttccaa gaagcaaattg aatccatagg 120  
 tgaagaagat ccaacgccta caatctccac atgggactac gtcaattcca ctatctaatt 180  
 gcgcttctat atgttgacac accaaaattg cctctgatgt atggaaactt gagagaagat 240  
 attgatacat aaggattgcc caatgacatg acgtgtctat atcagtctct tggctggggg 300  
 tatatgcatc aatcag 316

<210> 13404  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 13404

ccttgtagct cacaagtcac ttctgcctgc gtctatctta tttttcacac aagcatataa 60  
 aacaaggaaa gaaaataaaa aatagcgacc gaaatgaaat accaatacca cacatccaat 120  
 tagaaaaaat aaaaaccgcc cctaatttaa tttcctgatt tctcaatatt tattatttaa 180  
 gcggtgggac cctttatata cagtttaatt cggccgccag ctttgtcgtc tctttcgtct 240  
 gcgtccatcc cggcggttac tttggtttg actctcattc tctatctctc tctacacctc 300  
 tctctctctg tctctcaatg tctataaggt ca 332

<210> 13405  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 13405

gcttgatgtc ttcaaacaca ctatgtagac ctaaaggtag attatcattc attgtttatt 60  
tattggtatt cattatgcga tataattcgt tgtaaccgt cactaaccaa ttaattattat 120  
caactactcg tttggttaag caaggaaatt gttggtccaa caaaaatcat ttacgcgtac 180  
agcatacatc attgtcataa ttgacaacac ataatgacat tcatagttaa cctgtaagaa 240  
aattggcacg taaatggaaa tggttcttca tctatttcgt agaaagagct ccaaccata 300  
agtggctgag actccatgat catgctccag acacgaagat atataaagac gtcgaagtat 360  
tgaagaagga ttataagtcc cttccttgct gaaacagtag tagaacgtgg ggaatatgaa 420  
aggaagttgg caatttatat 440

<210> 13406

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13406

caccttctcc ttccccaaag cgggcgatca tcttagcgcc gaggtcgtaa accgtttcca 60  
tctcggctgt cttgagcgtc agcttcccg tcttcgcagc ggcgccagac accgcagggc 120  
ggtcgatctg gacctcgacc acttcccctt caatgacttc ggcttcttcc ttgatgcgga 180  
cgccgatggc cttgcggaag gcctgngtga gggcttcggg tttggacatt tccaatgaga 240  
agatttcgct ggcagcgatc atggcaaaag gggtttcgag gccganggac ttggccatgc 300  
ccatggcgat ggcggtcttg ccggtgccgg gctggcctgc taggaagacc gcgcggacgg 360  
cgatcttgcc atctttaatc atctgga 387

<210> 13407

<211> 312

<212> DNA

<213> Glycine max

<400> 13407

tacttataac actacaaaat aaccataaat tggaagagtt tgatacaatt tacacaagtt 60  
ttatacaciaa aagttagtcg tatgcaccga ctaacacact gacatccttt gaattttgca 120

atgcaagggtt attatcttca agaagtctat ataagagtct tatagcacgg aaattgtgcg 180  
 ctteectcaaa ttccatcaca atgtgcttct gataactgaa ttcaagcaag cactattgtg 240  
 ttgggtccta ttttattata aattgggtcac ctaacagttg aggatactgt gagcgtagt 300  
 aagcctaattg gt 312

<210> 13408  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13408

gaaagaggaa gtgtagaagg tgaaactgcg tgctnnnttt cgttgaccac agaggggact 60  
 tggagagtgt cgcggagggtc angagacctt ggggatgtca ggtgggggtgc tattacccaa 120  
 aaccaagctt gaccaatccc gacccaaccc gggcatagtc agtcagtgag aacctgcgat 180  
 gtacctaaagc aggcgagctc ctggcagtca acagataaaa agaactaaga ccacaaagca 240  
 aggaggcttg tgtgggtggct ggccagctgt gaatcttgtg tgatatatgg gttatggcct 300  
 ctggtaatcg attaccaagg gtgggtaatc gattacaagg cttaaaaatg aagacaggag 360  
 gctaagatgg tcttttggtaa tcgattacca aggggtgtaa tcgattacca cgcttgaaaa 420  
 cgaggtctgg aagct 435

<210> 13409  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <400> 13409

gatcattttc ccctgccatt cattgatcaa atgcttgagc gcttggcaag tatgtctcat 60  
 tacaattttt ttatggtttt tctggttatt tacaaattca tattgtctct gaggatcaag 120  
 aaaacaccac attcacctat ccctttggca tttttgcta taggaggatg ccctttggcc 180  
 tatgcaacgc ctctgttacc ttccaacggt gtatgcttag cattttcaat gatttttttag 240  
 agagttgcat agatgtgttt atggatgatt ttactgttta tggatcctct tttgatgcat 300  
 gtttggatag tctaaataga gttcttaata gatgcattga aactaacctt gtgc 354

<210> 13410  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 13410

ttgcatcaat attacatctc tgagggtaac taacagtga agtcacaacg tactttggct 60  
 ttgatgttaa atcctgcaag cagcaactta atcaaatact ctgtatatag atgatataacc 120  
 gcaataaaaa catcagaggc ctctccactc caaaaattta cagactggcc tcatatacaa 180  
 acagaaaata aaaatcaagc tcgaataaaa aatgcacgtg gcaagcaaca taaattatct 240  
 atgtcactat acttgtccca attatatcaa tcgtagatta ggggtgggat atttagtgta 300  
 cttcatcgaa acaaacaaag aatctggtga aagcatgtaa ggcttcttaa caagttcata 360  
 acaacagtag caggac 376

<210> 13411  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13411

cccacacca ccaaccaca acgaaagtgt aggcaaagca aactcnaac ttanantnta 60  
 atcaaaantt cacaaaaaaa acnanaagag gagcgagctg agcctcgag gccnaacaac 120  
 naaannaaan aacncnaccn naagcccaaa caagaaacaa gagagaagga ccagtttccc 180  
 tataacgaac ccaaacgagc acacggcagg cgggcggtga acccaacca cacgggacag 240  
 aacccgagtt agcaagaaaa cagaaaacaa gctacgcacg ccgctgaacc catatcgaaa 300  
 cacagcgaac agcaaccgag ggcagcccat gcgaagaact acgaacaggc ctatccatga 360  
 taccacatc atcggaagag aaaaaacatc acggcagcgg gggccaccag gctactgcaa 420  
 cccctcagca tggagctagg acatcgcgac cgacgatact ccaacgaaaa gcataaacia 480  
 aactggccgg cgaacacagg cgacactccc gaacgcacaa agccaagccc caccgaaacc 540  
 tcgaaagaaa ccaagacacg ggccctgacc accg 574

<210> 13412  
 <211> 260  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13412

cacactgcan cancagggcg ggcgttccat ggcatacagaa cgcacaaccn caatnctctc 60  
acttggttatt ctctcatctg tctgtaaaac gtatgtgggc aatggatatct agcacaaaaac 120  
taagcttata gtcatttgtgt tactgtccat aacgaaacag tacatgaaag tcagatgccc 180  
catctgacat aagcttccgt tgtctacttt ctctctatct caatcggcat cctactcaat 240  
tagaacnaag cagtttatgc 260

<210> 13413

<211> 340

<212> DNA

<213> Glycine max

<400> 13413

atcaatatga caagacgacg gtgtgtagag tgatccaaga cgtacaaatg gacctccact 60  
gaacttatta atatacagat cgagatatct taatgatgaa gagcttccaa atgatttacg 120  
aagagcacca cccattcatt tgtgggagaa ccctatccgc tcaatgtata tagatgcccc 180  
aacatgatct gtcggattga ctgaaagtcg agaactctga gctgcaagat cagtgaagtc 240  
acgggatata cacggagcta gaattgctaa cagtacatta tcctgtgggt ggagtgggac 300  
atatgacaag tatatcacc cccagtagca gacattaccc 340

<210> 13414

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13414

ntgattgccc atatgcacgc cactactggt aacggttcat attatataat caaatatata 60  
ttgcgagata tttttcatct ccagagacac tataggaatc atgtctgcat atgattaatt 120  
ctaatttcta catacgctat attgttcaca taagtctacc agacaataac tatatccaag 180  
tgcatcaaat tctaaatcat attagcgggt ttttgcatga taccttctac aagtgcacaga 240  
ccacaaatgt gtgcaaagca agttagtaat gtgacatagg gacacaagaa atgaataaac 300

aaacttgaga ttgaaaataa tatatgtttt tggttcttta ataattgaac gcataacatt 360  
gagctgaatt cccaattgca ataaaattga atctccagaa taatatgtct tcagggtaca 420  
ttaccttgat tcgtcattaa t 441

<210> 13415  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 13415

atattgaaat gatgaatagt ttgtgatgtt tgtaactggt gtctagatat ggactagtag 60  
actgcagcga acaattttga cagcaggtcc aattgttggg tttccaaagg ttagtgccat 120  
ccttaagtca ggaaatatgg attgacaaaa gtatacatta ttagtgctcc tgcacttact 180  
atctatatgt tagatacaat ggcgcgcact tgatgagata aatgccggtg tgtgtgatgg 240  
gaagacatat gaagaaatca agaagaacat gccagaggag tacgagtatg tcacaaactt 300  
gtaatttgtc ttatttccag ttgaatgcta ctggtacatc agataaaaaa aaccagtgcg 360  
tggt 364

<210> 13416  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 13416

ttcttgggca acatacacac ttgctcaaac tcatgaaagg aaacacaaac tcaatcacag 60  
tcatgcattc aattcaaaac caaatcatat accaattttc acacaaagat aaaagtgttt 120  
tattgccata tcatcaaaat caagtcaaac tggtccatat acttcagaat aagcaaacca 180  
actaccata aataaaacta gcagtgtata caaacataaa agaaatactg tactgaaacc 240  
gtaatcataa taataataat ccaaaaagca aaaagcatca tcaggaatca acaatgtcaa 300  
gagtgtataa attaggggaat aagtgagagc aacaacttct ccagatgacg aataagaaag 360  
atcgataatt cctccaactg ggg 383

<210> 13417  
<211> 413  
<212> DNA





tttccaggag gagatatgcc gccggcggtg ggcatactg gttaccccca tggccaagtt 180  
cgatccaaaa gtagtccttg agttttatgc caatgcttgc ccaacagagg aaggcgtgcg 240  
tgacatgagg tcctgggtga ggggtcagtg gatcccatgt gatgcagatg ctatcggcca 300  
gctcctgaga tatccgttgg tgctggaag 329

<210> 13420  
<211> 446  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13420

tatatgcaat gtggtaccat gtcagtgaan aacctcgtcg tgctctctan gaatacatga 60  
caagacaaac cgcacaataa taagtcaagt cactctcact aggtaatatc atagggagac 120  
cagtcagggt cacagtgttt tgcgagaatg ctccaacat atgggatcaa cataggctta 180  
aaggagcact caaacctgtg gacccccaag gcctacactc cgaagagtcc gtcagggcct 240  
ctccctcctg attcaggtcc aaccagaaa acattttagc acacagactc tatctatgaa 300  
ctgtacaaaa cacacgactc ctcaattgtt ctcaaaataa ttttaaccg tcgcccttta 360  
agggctttat cattaactcg tcgcccttaa agggacttag cattaactcg tcgtccttga 420  
agggacttat gatcgtgtga ttgtac 446

<210> 13421  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<400> 13421

aacgctaaag gctacataaa tggaagataa agctgcgata aaagatttgc tggaagacga 60  
ggaaaacca tatgagaata ctgtaagttt taatatatct gatatttgtt attgttttagt 120  
ttcttgcaag cttttaaatt gtggttgcaa tcaaaattct tttaaaacat aaattctgaa 180  
aaaaaattaa gaaaaaatat gtgaccgatg caactataat tgcggttgac cttggtctct 240  
ccttgcttaa ttcgatttat tttcatata tactttatgt ttatatccat aaatttctag 300  
ataaatcaaa catatagatg tgtgtatgta tgagcagatt ttctcacaat ataacataat 360



cggattatgt atttactttt ttttagcttt cgaagaagtt acgaaaactc atggattgcg 240  
caaaaacacc tctttttgac ttccaccaca ttacggaatt tcacagatcg cgcaagcctg 300  
cttccttttg atttctgaga cgtctcgga cttcatttat tgtgcaacaa aggacgcaa 360  
gtatctcaaa gcggctaacc aaaggttgca tgtcatcaag taataatccc cggatgaaat 420  
tanggtatga caggctttta 440

<210> 13425  
<211> 438  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13425

tttgctctat ttgaacaaat ctttctgcca tgtcactcat tactgtctgn gatcttattt 60  
ctgtgcccat gaatgaaaag attctggtct agtggccgta gacagccagc tctgaatacc 120  
aactgttata ggatttaggt gggaaagaga aagaaacaga atgacagaga aagaaagagg 180  
caaagagaga agaaaaggat agagaggata gaagggaaga gaaacaaaga gctcaaggaa 240  
atatgctctg cactatgtga ttatcatttg gtctctctaa aatacgacag acctgcctta 300  
ttatagacag ctaccaata acctaacagc caagagacaa cagtagctga ctaaaactaa 360  
caaactgaca tcccttttct ttttatttac atattatata caatgaaaga ttaatatcag 420  
attagtcagc cttaacaa 438

<210> 13426  
<211> 333  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13426

tagtcaaaat caatcattga ttaacctcca agcaaagatt gaagctntag ctaggaattt 60  
tagtttccat aggtcctgaa gcgctccatc cagatttgcc tccactaaac tttcttgag 120  
caagttatag gccctccttg tagagtaata tccgttaggc tcagatttcc acatccaaca 180  
atctgttgta tgttgctgga ttgcaatctg tgagatgtct tccataaaac ctacagccga 240  
tgcgatttca ttatcaaaca aaggccttct ccatcaaagg ttccattccc atgctgagtc 300

attgaaaactt cccacttgct ggatgagttt atg

333

<210> 13427

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13427

gaagaacgtc gaagaacggg ggaaaccttt gcgaaattct tcacggaaaa cgttacggaa 60

acgttttcgga agcgctcgg cttagatttt cttcacggaa acgatttttc caagcaaatt 120

cgaagagag agaagtgcc aaggggctga acccttttct tcttcacttc ctccccctatt 180

tatagcaaaa taggggaggt ggttgccgcc cagctcgccc aggcgagcca ggttgcttcc 240

tccagaagca acagccttct ggaggaatat tctggagggc ccaagtgggc cttgggtgct 300

attgcacccc catttttact aagtacaccc gcctctgctt ttttggtgat ttctttttcg 360

tanagttacg ganacttacg aattccgtaa cgatac 396

<210> 13428

<211> 325

<212> DNA

<213> Glycine max

<400> 13428

ccctgtcgc ccctattctt taggcgttca caccagtggg agaaacgtag accaactgtc 60

ctctcttcaa tacaacctcg attctttccc cggcaaacac caaatccgcy aagctggagc 120

gcatgcaacc cactagcttc tcatattaca aactggcag agtagctacc atcatggtga 180

tcctctctat ctcaacctag ggaggagcta cttgtgccat caaatccctt catcactgcy 240

catagtctat aaaggatcca ccctctatct taaacatatt ctgcagacga gcacgggtcaa 300

gagccatatc ataatagtac tgata 325

<210> 13429

<211> 376

<212> DNA

<213> Glycine max

<400> 13429

ataggggaga tattaaaaatt aaattaaaag aaattaatat attaataattg gacgataaat 60  
actttcaatg cattttttgt ttaattattt attaattctt tttagttgaa aataatatag 120  
ttttatttaa catatacatg ttttgtgcc a tgcaaataatt aatatcgtgt gatgtttata 180  
tgattcatga ggtgtgagaa catgttgcgt tgggattata atattgtgat tgagattgag 240  
tataagtgtt tggtaatac ttgatgtgat attatttgtg ttgtgaattg tgaattatac 300  
aataactcga ctggagtgt a ccttgagata agtgtttatg cgcgaggatt acctaagata 360  
aggattacct aaatta 376

<210> 13430  
<211> 445  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13430

taggacaatg tccagtctat ttcaattgtt acccaaacia tancttgagt ttaatggata 60  
gaatcattcg taactctctg ttctaaaca tccactttca tggacatgac atgaaagaag 120  
gatcaatccc aacagcattg atatataaga ttcagtacaa ggtcatgaac acttgtgcat 180  
aaagagtcct tctaaaacca caatgaggag agacaacttt gtttatcact gacatgacaa 240  
aggccaatgt ttctctccca agagccataa aatgggatga ggtaactctt cctgaaaaat 300  
aggtcatgga caaggccact ccgtcagtc ctggatccgc tccaacatag aacaaattaa 360  
gcaagacaac tccggttaagg tagaaataac cttccatacg agaaattatc tttcatcaag 420  
actagaagcc tcaagattcg acaac 445

<210> 13431  
<211> 440  
<212> DNA  
<213> Glycine max  
<400> 13431

ctaagctctt ctattttttt ggctggaaag ccaaaggggt ttattctttc agggaaacagc 60  
ttgaagactt gggaagaggt tgtagagaaa tttctgaaga agtactttct agagtccaag 120  
acaactgaag gcaaggcaac tatctctca ttccattaat tcccaaatga atccctgagt 180  
gaagcgcttg agagattccg tagcttggtg tgaaaaacac caactcatgg attctccgag 240

ccgattcaat tgaacatttt catagatggt ttgagatcgc agttcaagca gttattggat 300  
gcttctgttg gaggaaaaat tatattgaag acccatgaag aagcaatgaa acttattgaa 360  
atatggcagc tagtgatcat gcgaatttgc gtgataggac tcatgtaccc acaaagagaa 420  
gcctactgga gctttcttca 440

<210> 13432  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13432

tgaaggatg aaagaatgct tcgttcaaaa gtnagnaact tcaatttttc aactcttcta 60  
gtatttatag gtttcacaag tgtttggtgt ctctaaacaa tcttcaaatg cgtctaattgt 120  
agtatatgga gaagggtgtgt gttgggagca ctaaattgcat gtcctttcca tactaataaa 180  
ctattatggt tatcttcctt gacctacact cctactatag tttttagtgg tcaaataaac 240  
ttcaaataga gaacaagtat gctaataaga atgacatgct tttttacgtg aagaaactat 300  
ttaaacttga ttgttatctt attctattca ttctagacaa gtcataaggaa gaatgttta 360  
acattcttta tacaaaagat caagagatca taatattaac ttagtctttt aataacattt 420  
aatgtttggt ggttttcatc 440

<210> 13433  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13433

tgctanagaa ctgaggagaa atgacaatgc ggccgattga ttttggtata ctaacgagca 60  
catcttaagc gcttactgcg cacaacggag gcctctcgcg aatgaggcgg ctatgcctgc 120  
ttctgatgac gcatggacac ttatccctga cccgactaca attcttgcca aaggctggac 180  
gaaatcagcc acgatcagag gtgatatgga ttgggtccca ccatctgagc accgcacaaa 240  
atgtatcata tgtggaagcc aaaggcataa ccagcgtagg tgggcaatgc aatcttaaca 300  
tgataggatga tcgaatcggt gattcatgta tgttaccca ctgatgtgca tttgcttac 359

<210> 13434  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 13434

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 taaaaaggat tatggttgag caatagaaga aaaaaaatac aaggaagcaa tcacagaaga 120  
 aggaagaaga ggaggagcta tttgcatggg agcacaggac aatgaagaga catgaacaat 180  
 gtaatgcgtt caccagttga aacatcagta ccacaaaggc tgaagaacct gagtaagact 240  
 aatgaaaatg acgagggggt tgtacaaaca gctttccaaa agagaaagggt tgtagcccta 300  
 gttgcccttg cccagaatg agctaagacc gtccaacatg cttcagaaac tcaaagaacc 360  
 tatcattctt tctgtcatat ccagacacat tgtaacaagg gctacaaatg ccaatgccaa 420  
 gattggtgaa aatgaatgga tag 443

<210> 13435  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13435

ataatcatca ncaatcagcg ggcgtatggt gttcaaaaat aaaatctcaa catcatctat 60  
 tatacaaatt tacataatat ataataacaa gctagttcat aaaccaatcg agtcaaatta 120  
 tacataattc aaatgaaact tatatatgca atcagtgaaa atagtaacgt aattagttca 180  
 gaacattaag ctgatgaata agttcaagga gtgaatcatc ggactcaaga ccgaatgact 240  
 aaatgcctat atagtttagt gtaggtgtta tccgtatcaa tagaatcgta ggactatccg 300  
 gcagagaatc 310

<210> 13436  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 13436





caaacgacaa taacttttga gtcggatgtc cgattgagtc ccgcaatata tcggaacgct 240  
 cgaaatggaa tgtagaagcg ctgagcaatt ctaaacgacc ataacctgtt actcggatgt 300  
 cg 302

<210> 13439  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13439

agatcaactt gatgttctat gcttcttgaa agtgtcagtc catgaggaat ctccttgga 60  
 aagacatctt taaattcctg caataagggg tgaacactag gagaaacata aatagttaac 120  
 tgattagaat tatcactctc tctctcttgt gtatcactct tttcctcagg tgtatcactc 180  
 ttctttttcg tattccattg tgggtgcctca ctattttctt tctcttggtc aatttcgagc 240  
 gtctcgatat attatccgcc tgaatctgac gtccgtgtga aaagttatga ccatttgaat 300  
 ttctagagag ctttcgttgt tcaatttcga gcgtctcgat atattatgcg cttgaatcgg 360  
 acctncgagt gaaaatctat gaccatttga a 391

<210> 13440  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13440

cattgataat agaagctatg agcaaattca aacgacattt actttttact ccgatgtccg 60  
 attgtgtgcc gtagtatatc gagactcccg taattgaaaa cagaagctcg tagcaaattc 120  
 aaacgacaat aatattctac tcagatgtcc gattatgtcc cgtagtatat ccatacgctc 180  
 gtaattgaaa acagaagctc gtagaaaatt caaacgacaa caactttcaa ctcagatgtc 240  
 cgattgagtg ctctaataata tcgagacgct tgaaattgaa agcagaagct cttagcatat 300  
 tctaaggact ataacttata tctcggatgt ccgattgggt accataatat atcgagatgc 360  
 tcgaaattga caatggaagc tcgtagcaaa tactaacgac cataacattn tactcggatg 420  
 tccgattgtg acccgtaata ta 442



caagggatgg tcgtttctcc gggagcgacg cgtccagctt atggatgacg agtatacaga 120  
 tttccaggag gaaatatggc gccgacggtg gacatcactg gttactccca tggccaagtt 180  
 cgatcaagaa ataatccttg agttttatgc caatgcttgg ccaacagagg agggcggtgcg 240  
 tgacatgaga tcctgggtaa ggggtcagtg gatcccgttt gatgccgacg ctatcggcca 300  
 gtcctgaga tatccgttgg tggttgaaga gggccaggaa tgtgagta 348

<210> 13444  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13444

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 cattgcttac actgaattgt tgggagttgg aagccatctt ctcaatcaaa ttcctagctt 120  
 cagcaggggt catatcacca agagctccac cactggcagc atcaatcata ctctctcca 180  
 tggtgctaag accctcatag aaatattgaa gaaggagttg ctcanaaatc tgggtggtgag 240  
 gacagcatgc acacaatttc ttgaatcttt ccagtgactc atacaggctt tctccactaa 300  
 gttgattgat acctgaaatg tcttttctga tggcagtggt cctagatgca aggaagaatt 360  
 tctccaagaa caccctctta aggtcatccc agctgaaaat ggacctgg 408

<210> 13445  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13445

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 aaaagatgag tttctcttac ttctttcttt ataccaacac atgtaacatt agagagagaa 120  
 atagatagga taataagaag tatacatata ataataata agtaatatga ttttaataaaa 180  
 agatggagag acagagagaa atatatagct agtcaatatg gtccttaaag tgtattgatg 240  
 tttcaagtta atcgctaaat gtttaataaac taatttgttt ttttgaaaag tagtgccata 300  
 tttcacattc gtgtttcatc ttagatagat agatcatgta atcattaaaa agtaattaag 360

ttcttgcgcg catataaaga ctaaattgta tnttaatgag aataaatatg gacatatctg 420  
acacaaaacta tgaatgtga 439

<210> 13446  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13446

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tcctcggtaa aaatgctatg cagcctttgt taaccggttg atcttcgcga aatttggtct 120  
gcaatttcaa aagacaattt tccatgatct gaccgttcgg atctttgaga agatgtctgt 180  
agtgtgctag aagcctotta atgaagcttc tagaggaagc ctcttaatga agcttctaga 240  
ggaagcctct taatgaagct tctagagaaa actacatgaa gctgcctcgg taaaaatgct 300  
gcccagccta cgtaaccgt tgaatctttn tgaaatttgg tttgcaactt cacaagacac 360  
ttttccatga tctgaccgtg c 381

<210> 13447  
<211> 370  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13447

aggagatatc cccttgacag ccatntcaaa atataaatca taggcctccg gaacaagtnt 60  
atctttgcaa aggtatttaa tgattgtgtt gttgtaagtt acaccgctct tacatctctc 120  
tcaacaactt caaggcagct cttgtttctc caactttgca taacacattg atcaaatcan 180  
agtctgtaa ctaacttgat ccagttgaaa tccttcgggt gccacattgt catgaaagtg 240  
tagtgctttc ttgacctcaa cagttagaca taaaccattc atgagtgtgt gaaagatatg 300  
atgtctgcga taacccatct tgagaaaggg caatgttatt tgaggaggat gatcatagta 360  
acattgctat 370

<210> 13448  
<211> 356  
<212> DNA

<213> Glycine max

<400> 13448

gatgaccaag agctcatgag agtcaaagaa catccatctc aagagaatct agaacaagtc 60  
aaagagttca agaatcaaga agaattcaag actcaagaag aaagcctaca aacaagaatc 120  
aagattcacg atctcaagaa tcaagatcaa gattcaagac tcaagattca agaatgaaga 180  
aaagactcaa tcaagataag tattaaaaag tttttcaaaa ctttgaatag cacatgagtt 240  
tttgacaaaa cctttaccaa agagttttta ctctctggta atcgattacc atattgttgt 300  
aatcgattac cagtagcaaa atgagtttga aaatgttttc aaactgaatt tacaac 356

<210> 13449

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13449

agcaaaatcc tgactcccta taccttgacc agggttttta tgtctatcct tactctcgga 60  
agcgagaaga atagaacgga tatntccaat caaagataag gaaagaacga agatttccaa 120  
tcaaagagaa agcacaatag ataagaacga caattcccca atcaaagagt gggagaaagc 180  
aaaaagaaaa gaatgaaaat tccaatcta agaatgggag acagtaaaaa aggaagaata 240  
tgatggaaag atagctcctg atcagggatc gaacgaaaac atatgatatg tgcagatagg 300  
tctttggacc ggacaatatc tgaacaatac agaattttca ccaaataaac aaaaagaaga 360  
aaggaaacca cgacctataa tgggtttatc cctttgatta cca 403

<210> 13450

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13450

aactaagcta ttcaactctt aaatactacc attacataga caatgattcc tcattttggt 60  
gacactnttt aacatggaac ttgaaaaagt gggcttaaag ctcaacgaga ctctattatt 120  
ctatgggtgcc aggcattttt ttcaatgagt cacaaactat ataccataa cttattagaa 180

tcttctgaag gaatgttgag tttgtcaata agaagacgat agcatccaag gttctaggag 240  
tcaaagttgt attgtccaac aatactcgcc aaggcaatag ggtgccttcg tgaaggcaat 300  
acctaccaag agagatggga gaagaactat gactcccatg taacaagggc actctatagg 360  
gaaaatgctg agaatatatg tgatcaaaag actatagtaa acggcattat gtgcgagaag 420  
gctaagaatt gggccaacac tctgaataag agtgttct 458

<210> 13451  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13451

agcttncctt catacccact tcatcaaag tcatgttaca acccctcacc gnccattaaa 60  
cactgttgct caatctccac cgaaaggtag catgccttac caaaaaccac cctataggga 120  
gaaatcccca aagggtgccg gtaagcggtc ctatgggcct atagagcatc cttaagtagc 180  
ttgtccaat cctttntgtt gggctgcact agcttctgca acacttggtt tatctctcta 240  
ttaaaaacct ccgcttgctc attagtttat ggatgataag ctgcaacaat tgtatgaaca 300  
acccatact tttggagcaa ggatgccaat gacttggtat agaagtggct cccttggtca 360  
ctgataatgg ctctaggctg actacaacct gcaaaaagtt agatctcaca taatccacaa 420  
caac 424

<210> 13452  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 13452

agcttaaata tgtgggtagg attgtgctca cacgcttaac acaaataaa atctattagt 60  
gcgcataagt gaatattggc ttagcgcgct aatatcattt aacagatgaa ctgaaacggt 120  
gcaattgatg aactccagag gtgcgctctg acagataatc ttcttctgga tattttcttg 180  
cgcttagcca ctgagtg 197

<210> 13453  
<211> 268

<212> DNA  
<213> Glycine max

<400> 13453

atattatgcg ctcgaatcga acatccgtgt gaaaagtgat gaccatttga gtttctcgag 60  
agcttccgtg gttcaattcc gagcgtctat acatattatg tgcccgaatc tgaccttcgt 120  
gtgaaaagat atgaccattt gaatttctcg agagcttccg acgtagatt tctagcgctg 180  
cgatatattg aattcctgaa tcggagctcc gtgtgaaaag ctttgaccat atgattttct 240  
cgaaagctat cgtggtcaat ttcgagcg 268

<210> 13454  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13454

acacatagaa actcaagctt ctaggaatc ttcttaagaa gcttctcagt gttgtgagtt 60  
tanttatgaa aggggtgtgt gtagctaagc tctagcttct caaggaagtt ttctcaaaga 120  
agcttctcaa ggaagttttc tcaagatagc ttctcaagga agctacctag tctataaata 180  
gaagcatctg taacacgtgt tgtaactttg atgaatgaga gtcttgtgag acacaactca 240  
nagttcaact tctcttctct tttcttctct caatttcgtg ctccccctc tctctttctc 300  
tccctctttc ttttctctca ttgaagcatc ctctccaagc ttcttatcca aggctcatct 360  
tggtggtgaa gctccttctt ccatggctta ttccctagtg gatggcgcca cctcttacct 420  
ctctctctt atcttccgct gcatctccat ggtggaaaat cacca 465

<210> 13455  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13455

tagaaactca agcttcttcn ttgtttgcta agagacggac ccaagatgtc tctcctttct 60  
ctngncatga acggaggctg tctagcgggc aagcatgcct cacctctcgg cgaacaacgt 120  
gtgaaaccaa ccatacataa agagccggag tacaacaaac aatcctcgta ctgctcttct 180





ctttgcagta atctagagtc aatg

444

<210> 13458

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13458

aagctcacta caagccttan atgaaaaana ccatgatatc accatatacct taaggaattt 60

tggagctttg gaattgtttt gggataaagt gtggcgggtt tttgtttcat tggataaactt 120

gttttgggcc atacttgatg tacattgtat attggttaaa tgttggacat gctgaatgaa 180

atgttgtttc tcaaaggcta taaataaaaa aaattcgaaa aaagaaaaag aaaaacaata 240

aagttgagtg aataagatct taaatggcac aagaatgatg aaactcttgg ttctactctt 300

tatgtttaaa tnntatcttt acttcttttt attttcttat tttttcttaa tatgcactta 360

ttccccatt 369

<210> 13459

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13459

aatatatact ccagatataa acatgcttta aaaatatattg ttttagtatg ataataatact 60

ttaaatttgt ttgtttttta ttaaatttaa attttgtttt tgtttgtttt agtatgaata 120

tccttagaaa catatacccg cataccaaca tatatatata tatataatat aataatataa 180

gaatntataa attgtaaatt taaaatcgat gtaaacaatg tgttattata ttaataaata 240

aatatcaacg gcttgcattha tgatttgtha tgtgatcccc gcattgctcg cttatttggt 300

ttccgttgtc tcttcttttt tctcaacgat tgtcttttat ttttctccga gttttcctct 360

tatgctaca 369

<210> 13460

<211> 437

<212> DNA

<213> Glycine max



atcttttcctt tgaaatgcga tcaatccatg ttgctatggc tggactcaat tcacaaaagt 240  
 tttctatatt gtgatcaaaa atgtgcttgc taggagtgtg ggttgataa aattagttat 300  
 gaataacatg gatgagtata tacgaaaggt gaatgaacgg gaccatcaaa tatgaaatct 360  
 taccagttt ct 372

<210> 13463  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13463

tctacttatg tggcagggcg ggcttccttc accttcttgt cttcaacgcg aactttgacc 60  
 attggtcttc ctccccgga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatatgtc ccacgatttc cttgggtatt tatcaagcta gttatgccgc cattcttttt 180  
 tcctaaacct atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
 tgcacggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
 aaaagactgg atagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcaactt accaagatat cttcctcgcc tgacacgatg accaagtgcc cctnactac 420  
 gaatttcagc tnttggtgga gt 442

<210> 13464  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13464

aacaagtgtc ttcacagata gtcacacac tgtagaaact atcaaacta cccatcatat 60  
 gtccaaggc cccataccca caaaaatcaa aggagaaaga agtccacca aacctgaatt 120  
 ttgaagtcc cactcgtagc cagcacttc acgacccga aaatgccctc ctttcgcgat 180  
 ttggggcaga aatgatggcc aaagggtgaa gctatgcttg gagcttcaat ggagaatgaa 240  
 gaagaagaaa atggcaacgt gagggagaga gagagctgtc ttgaaagtgt ggtggctgag 300  
 tgaagagaga gaaaagcttt ttgggtttta ataagaagg gtttctcttt gtctattatt 360

gtattcaagc tctgccacat gtccctatta gagtggagcc taaagagcnc actttccctt 420  
 tttactgtga cccacactca gccaca 446

<210> 13465  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13465

aacaatgcac taggagtgtg attagagctg tgttattaca tgtatngtgc caaatatgtg 60  
 gaacttttga gcactactac aagcaacctc tgcacaaaca cactttttta aaaccactct 120  
 tgctcggtg cttactgtat caacttctgt ctctgcttcc tttagaggtc caaaacgcct 180  
 aaacatttta ttaagggttg tttctgaggg aacagaaccc aactcagcaa agttcataac 240  
 aatgtcagca ggggcattct catctatata accaggaggg tntgcacgag cctcaatgtg 300  
 attggttgta gaatactgtt tcttgaata 330

<210> 13466  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13466

ttggctacaa cctnnagctg cccctgtggc aacttcaaaa attcaaagaa ctcgagatc 60  
 ttcacagtta taacaatgga gtaccaagat ataagtatca gagtattaaa tacaataagc 120  
 caaaactcata atcaagaaat aatcaaacca gaattcaaat aacataaaat gtcaacaacc 180  
 acaaaatata caagactgaa atttaaaaac acaagataaa taagcaaagt acttagcata 240  
 ataatgtaaa ttctaagaaa ctaaaagcca aaatacacgg cttataaaag ataaatattc 300  
 agaatctaaa atctaagaag acggaggagg tgggtggaaga tcgaaactct gacgaatgta 360  
 tccgacatcc tcttcaagct gtgtaagacg aatgtccata ccggcaaagc gtgaatctaa 420  
 cgagtcaaag cggtcaccaa cata 444

<210> 13467  
 <211> 425

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13467

cttatattgc tggccgattt ttgtgttggt aaaaacttgc tttatctccg cattctttta 60  
tggagtgtca ctgtattttt tttccctttt ttctcttacc attatcttct ggtagttct 120  
tgaaataatt ctaaggaaca aacatttggt tgtatttgag tgagtgttn taaaagaatt 180  
gatgtgatct aggtttgaat attttcattc tgaaagtatg tcattagtaa agctctataa 240  
aaaaaattat tcaacacaat taaatttgct tccactcaaa atcaattcct ttacatgaaa 300  
ttaaacatgt aaatatttat ataaaattat gtttgcggtt tttcgatgtg atttgtgaat 360  
ccaaacacgc tatttgagta tttaaagttg agacttgaga cttgtagttt taatcgtcta 420  
tgatg 425

<210> 13468  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13468

tgcttgatgg cacgtgatcc atggaaagga taatttcttg ttgatgttgt ttctttattg 60  
gtaaagatag agcctatggt acagagatac taaacggctg tggactacat gctgatattg 120  
ggatacctgt tcttatagag cgtagcctcg taaaaattga aaagaacaac aaacttgga 180  
tgcacctttt acttcaacaa atgggaagag agataattcg tgggaagttca ataaaggaac 240  
ttgggaagcg aagtcgattg tggtttcattg aggatgtact tgatgtattg attgtcggtt 300  
ttgtagagga aattattaaa aacagaggag agaagagaga caatacgtat gtggaggaaa 360  
tagaattatt ttattctaatt tcaaattggt cttagtagcg atacaataaa tagcanaaga 420  
taaactaatt agataac 437

<210> 13469  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13469

gtaatacaac attcaacagt acagattatc acagccttca aaacatggca aaggcagaga 60  
actctgccc taacaccaac cataatcaca actttttctca cttatagacc ccagtaacaa 120  
ttccttcggtt ccaattcggtt aaccgttgga ttaactcaaa attnttactg gaagtctcta 180  
gtacttaagc ctacattgtg accgttggga tctactagcc aacatccaga actcattctg 240  
tactactctn tccacagccc accacacaca agcatttttc tgcacaaagc caaaattctg 300  
ctgcacctat ttgacagcaa aattctgcat aagtgcagat ttcgaaaatc acactttctc 360  
tcatncaatc ttacccaaat caaatcctac aagtcccaaa tcatgtatca atcatgtcta 420  
aaccanagtc aagctntaaa gcaca 445

<210> 13470

<211> 374

<212> DNA

<213> Glycine max

<400> 13470

atggcgccctt ctctaaccctt gtctccttaa tcttctgctg caactccatg gttgaaaatc 60  
accattgaat gacctcattg aagctcaa atccaacctc catagaagct tctcaagcaa 120  
gtttccatca agtggttaatt agagcacaag agcttcaagt aggtgctctg tacacctcca 180  
ttaacctcca ttggtgtttc ttcatttttc tccatgtatt tactcacata tcttgtgctg 240  
aatgttggtta acatgat tttt ttagaatttc caccaattaa acttgctata gaagctagat 300  
ttgatcttct atggatcaaa tatcttgaac catgaattgg gttgagtaaa gttcctttga 360  
atcttgcttg ctat 374

<210> 13471

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13471

tcaatcattt gcaaatatgc atgtgtatta cgactcatca nctttgaatc aagccaaggc 60  
tattgtgcaa gcgatcaatg gggcaaaaca caccaaata ttatgatgat ggatggctca 120  
cattctcaca aaggtgaact catcactttc aaattaagct ttcaaaaacta tcatgacatg 180





gctatagggg tgaccttaata gtcaaaagag aagagaagga atatgagggt atatagttga 360  
attcttctctg ctaataaaaa ctaacacatg ataacanata tttgtctaata aaaaaaaact 420  
tttagtatgt tta 433

<210> 13474  
<211> 509  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13474

cttatccaag aaacactctg attgggtgggt gagagctttt ttccttccat gnnngcttat 60  
tctttaagtg ggaatgacac nntctgctct cacnctctnt nntctcttta aatcttccgc 120  
nntgcaactc catgnnngct gaaaatcanc cattaaaggg gaccttanng tgaagctcan 180  
nagaatccaa cctccattta gaagcttctc gaagccaagc cttccattca anngtgggtat 240  
gagaagccac aagagnnctt caagtagggg ggttccctta aaacaccnn cattaatatt 300  
catgttttac ccttctctc cctattattgg tttcttcatt ttttttccat gtatctcctt 360  
acatgtcttg tgatgaatgt tgtaaacatg attnttttag aatttccacc gattatactt 420  
gctatagaag ctaaatttga ttntctatgg ttcaaatttc ttgttcttgt tcttgaacca 480  
tgaatcgtgt tgagttaaag ttcctttga 509

<210> 13475  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13475

ctaagcttga tgcaacattg gagaggtaat gaaacactag atgattatta acatgtnttc 60  
tcatgcaacg actatgatga ggaccaaact gtgaagcttg ctgccacgga gtatttccgac 120  
tatgtctctg tgtgggtggaa caagctacaa aaggagagag caagatatga agagccaatg 180  
gttgatacgt ggacagagat gaaaaagatc atgaggaagc ggtatgtgcc ggctagttac 240  
tcaagggact tgaaattcaa gctccataaa ctaacaccag gcaacaaggg ggttgaggag 300  
tattcaagga aatggatgtg ctcatgattc aagcaaagat tgtagaagat gacgagggaa 360

ctatggctcg atttcttaat ggtttgacta atgatattcg tgatattgtc gagctgcaag 420  
agtttgttga atggatgatt tgctcaca 448

<210> 13476  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13476

gcgagctata antactcaag cttcagagca caacattnta ttgtctaacg gaagagatct 60  
ctttagcgtg aaggcgacgc gtatcgaaaa gttgttcttg cgactgacac acacacgatg 120  
acatattgga ctgaacatgt acttcatcat cattatcttg tggctgggtt ggtaggggtg 180  
atgttgctga ggatactact aatagactaa atgtgctata caatggagaa cagcacatgg 240  
agacactggg acaccacagt aggtgtaaaa ttga 274

<210> 13477  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13477

tacacaaaat tggtaacctat tattgttgat acatattcag tagtgtgatc tattatttat 60  
tttttctcta tatctatcct tgcattgttc acctaaagaaa ggtgatagag atacatgtca 120  
atcaaatacat taagagaatt tctatttggt gaacgtgtgg aagtattaca aaaataatga 180  
gcatgagctc ttagctatag aggtatcccc tcgtctaaga ctatgaatgg taacgagaca 240  
gacatgagta attaaaaata aaacataaaa agaattaaata aaattatttt ttgagctcca 300  
gagacatata gacattgcan atatcaatat gaatgtataa acttaaagag ttgtaaaaga 360  
taatcactct gacaatttat tagttattct atcaatcttt taaacaacat attttattca 420  
aatcatatgt atggaaaagt aaa 443

<210> 13478  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13478

tgcccgccgc acatccggtg cctaaacacc accttttagcg tataccaaaa agtgaatttg 60  
 cagcaaaaag cctgtaggat tcagcccaaa ttccgggggtc atatgctaac ttgctcccat 120  
 atctaattga taatgcaatg gtagccataa cccctgccag ggttcctcaa cctccatttt 180  
 tccgaggata cgactcaaac acaacatgtg catatcatgg aggagatccg ggacattcca 240  
 ttgagcactg tatgaccttg aagcgtaagg tgaaaagtct aattgatgtg ggctggctga 300  
 aatttgagga gaatcacttg tgaatcctaa cattgacaag cggcaccaca catggggcaa 360  
 tttgaagggtt gttgtttgat gtctctaata actcattang attttcaagt ttatgcaatt 420  
 attgagaacc acaattacaa tgctaaataa tatggat 457

<210> 13479  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 13479

aagactcaaa gggcaggaac actggatgat aacatagatg atgatctcaa aaatcaagat 60  
 tcaaggttca acctttcgag aatcaagatc atgattcaag actcatgatt caataatcaa 120  
 gagaagactt aatcaagatc cgtctgaaaa agttctttca taaaagaatt tgccaaggac 180  
 taatcgcttg aattcttttc gtgtctctct tctccctggt ccacaagaac aacggactaa 240  
 cagcctgaat tcttttgtgt ctcccttctc ccttgtcaaa gaattataat gacacagtct 300  
 gagaattctt ttgattcttc ctttcccata tcgaagattc caagactacc tgctgagaat 360  
 ctttgt 366

<210> 13480  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13480

actaagcttg tttgaactca tcataatgct tgctcatata tgttttgttt aagcaaagta 60  
 tcatgatgaa tcaagaacga ttcanagatg ttttgatgat aacaaagggtg atgacaaana 120





<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13485

tcaagaaaaa gatggcctca gcaaattcct tatttccaaa atgtaattct atcttagacc 60  
 tccaatcttt aatggagagg gttaccacta ctggaaaacc cgaatgcaaa tttttattga 120  
 ggcaatagat ctaaataattt gggaagccat agaaataggg ccttatatac ccaccacagt 180  
 ggaaagagtt tcaatagatg gtagttcatc aagtgaagc ataactatag aaaaacctaa 240  
 agatagatgg tctgaagagg atagaaaacg agtacaatac aacttataag ccaaaaatat 300  
 aataacatct gccctgngaa tggatgaata tttcanggtt tcaaattgta agagtgcctaa 360  
 ggaaatgtgg gacactcttc gattaacaca tgaaggaact acggatgtta aaagatctan 420  
 gataaatgca ctaactcatg agtatg 446

<210> 13486  
 <211> 181  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13486

ttagtcaaac aaaataatcc gaatatgtca aatatttgag tgttgaanaa gcataacaag 60  
 actttgtgtg attggtttaa agatacaatc tttgcagatg agaatgcttc agaaacatta 120  
 agaaatctag cagatgggcc taaaagaaat gttataacct ggcaaggata cgacatatac 180  
 a 181

<210> 13487  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13487

ttagaatctc agcttccatt attctatgta cccgtgggtgg tccacatttg gtttatgtat 60  
 ttttattctc gtttcattca ctttttatac ccccttttga cgtgcttaag ccattntatt 120  
 taagtcattt ctgcgttaac ctagaaataa aataaatttc cactgatcgt ttgaattgta 180

ttatccgtta actttggttg aaatgaattc cgaccgatcg gtcgtgccgc aaccacgttg 240  
gaaacaaaa aagaggtaaa taataatata ataataaaaa ataaaaaaga tacccttttg 300  
gtaaaataaa gcgaaaaatc aattggacgt tttctctttg ggatttctca ttcttaatcg 360  
aattgactaa taactaaagt gaaactaagg ctaaaatcaa ctgcctagt caagctcatc 420  
cacaanaata tggtttgaaa gtttatta 448

<210> 13488  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13488

tgggcattgt ggaatgacta cgatcgatcat ggtgtggact atggtcatga tgagtntacc 60  
atagttgtcg tcgaaagctg acattgttca naagggatgt catcatntg ccatggccgt 120  
gctacttacc acgatagtgg tcaagtgaca aagttgttca aatcttcata aagcatgcac 180  
tttccaactc tttcactcca ttgagcggct atacttttcc aagacaaaat gagtgtctaa 240  
gcatgagttt tgccaagata atgcatgata atgacacaaa actcacacaa aatgtcaccc 300  
aaaaagtggg ttatcaacct cccacactt gagcattgct tgtcctcaag caatttttct 360  
agttatctta atcaaaatan attctcccaa gccagaactc aagtatcana acccccaatt 420  
tattcaaaag taaaaactca cacgttgg 448

<210> 13489  
<211> 217  
<212> DNA  
<213> Glycine max

<400> 13489

gactatggca tcattacggg cgcttaactg ctgacagttg gacgccatct tctcaattaa 60  
atctctggct ccagcaggag tcatgtctcc aacggctcca cactggcag catatatcat 120  
acttctctgg atattacctg attcttcata aaaatattgg acaagaagct gctttgtaat 180  
ctgatgggtg ggcaactggc acatattatc ttaaate 217

<210> 13490  
<211> 431

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13490

gtcgaccaa aggttcanaa ggaagagaga agaggattgt gttgggttggg tatcaagttg 60  
taggtgagat gcacgaccta agaagcatgg caggccgaac ggttcaaaaa ttaaaatgaa 120  
gaatgttggt gatgttggt atgaagttga tggggctggg gagattacag gacctaatat 180  
acatgatcaa ccaaaggtt ccccaaagat gaagaagaat gctttgaaag ttcataatga 240  
agttgttggg gttggtgata tcacaggact taagaaacgt ggtcgaccaa aatgttcaat 300  
aaagaaacag ggtactgttg tgtacgcttt caataatgaa gtgccatgtg agattgcata 360  
caagatctgg aaaatataaa tgctgacaat ctgtgtcaaa agtttagatg atttgcaagc 420  
ctaatactaa t 431

<210> 13491  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13491

aggggnnnna agcttgagtt acgtgctcng tatcancngc anantcgagn nanatacana 60  
naagnngccn tgtananaaa caacggagga gaggttttat ngatttatat cattccataa 120  
cgcggggctc aggaggatcg tacaacactc tagaaccoca catatacatt ttagcatgat 180  
gaataatacg agatcaatgg gtgctcccaa taaatgaaaa atataatatc tttttgtatg 240  
taagatgtgg gaatcgctga acgtgaagtt gaacaacgga tatgctttgg tgtccgataa 300  
tggtgtgga gttgtttgaa gacccatggg ctgctgtgtg tgccatcaac ataattcatt 360  
gtgcatacat gttattgttc tattacctgc tactcttata ttacctecat gagttctggt 420  
agtgttcaag atgaccacaa cattaatgtg tcatgtcaac aacttgggta tggttcgaga 480  
tgctcctccg atcactaatt cg 502

<210> 13492  
<211> 409  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 13492

ngttttgttat tgctctgaac accttttttc tctctcagat tttactggca ccagaagtat 60  
 taaaatttaa taaaactttt ctttgtaagt ttatgttaat gttaatattg actgggtcca 120  
 tttctgaaat ttctagttta gcaactccgc tcttcccttt attttatttt tcttttggtt 180  
 gatgaagtgt tatttggtgc cactaattta tgcattngt gtaattttta taaggcaatg 240  
 gaaatggagg ttataagggt gattcgaatg ttgaagctga ggaagttgca gcagatgacg 300  
 acgatgatga cgatgtcgac tgggaggaag gctgatgaaa aatatctgat cagtataatg 360  
 taatggtcta ttctgatttg caatggccaa tgctcattaa taataccgc 409

<210> 13493  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 13493

accaggcacc ataggtagag gtgaaaactc taacccataa ctgatgctga tcagatgcac 60  
 aagcccatat ccatatacac aacaaagcta agttgaattt ggagatatac tttatcccca 120  
 gacccccatc agacttatgc agacaaatat catgccatct cacccaaggg atttcattat 180  
 gaacaatgtc tacatcccac agaatatacc actgaaggga tatcacactt gacggatatc 240  
 ccaaggggct gcattcct 258

<210> 13494  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13494

gatgggccta gatggggcca aggctgatta tctccctct aaactgttca gtnaccccg 60  
 agattgagtg gaaggctgat ctacttcga aacattgcga aatcttacgg atcgcggtggc 120  
 aattggctct attcaactcg acatgaccag caaaaacccg tatgtcgaca aacaattgaa 180  
 cctggacgaa attacggtat gacaataata atgggaataa agtcttaata cttctaaaag 240  
 gggatgggtg agacattata ttctcttaga ctatgatatg gattcgtatc atttgatcat 300

ctactcatca t 311

<210> 13495  
<211> 113  
<212> DNA  
<213> Glycine max

<400> 13495

acggttagctc tatcaatcat ctttaaata tctatctttc aatcttctct cacatcgtgc 60

aatacctttg aactctgtct acagagataa ctcttcatct gtctaaaagg gtt 113

<210> 13496  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13496

tcaggctgct caattgctcc aggttggtgc atgttttggc ttatgtctat atggnggtca 60

gcagaggagc acagaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120

taggttacca agttgaccaa cgcattcagt tttccttcaa gcttcttatt ttcagatgat 180

gcagatgggt ttgtagctac ctcatgcact cctctaata ga ctatggcatc ttttctggcg 240

ctaaactgct gggagtttga ggccatcttc tcaattaaat ttctggcttc agcaggagtc 300

atgtcttcaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360

ccttcataaa aatatatgaa aataaactgt tctgatatct gatgggtggg ctactggcac 420

a 421

<210> 13497  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13497

tttgtcaaaa atattgctca naacttttca gttccgacc ttcattgacct caacatcatt 60

cagggttaata attaaggaaa gacaaatatt tgtcattaat attttataac ttgacttcga 120

tcatgagntt gtgctagctt attgcttccc gcgagtttgg ttaatatattt ccggcaaaat 180

tcggccttttt tgctgggtttt ctggcaatga agtactagta tataatctatc agtatctatc 240  
 tggcacgtac cagaaatcct gtgttggcac aaaatgtcac acacacgctg aaaatatatt 300  
 ttatactatg ttttaatttgg atgtgataaa agaaaataaa gaagaaagaa aatatatata 360  
 gaaagaaaaa attattgttt ttttcta 387

<210> 13498  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13498

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 taactcctac gcatacatat tgccccgtgc ttatatgaag gactaacctg taagaagttg 120  
 aaagtgaaca attatggacg tatgatctta cacttatctt aaaagcataa gatgaatctt 180  
 tcattcagac ttgttattgc acaacaaaca caaccatggg gtatgctttt tttttcaata 240  
 atggaacaag aacttcatcc accttctaac agggtaaagt atcattagtc attgtcatct 300  
 cacatatata tataaaagca actcttgatc tagtctaata tttgagcttt ggtcattgtg 360  
 tgaggcaaaa ataataataa tattataac 389

<210> 13499  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13499

agannannaa gggtagtgct gatccttgta tnccttgana cattgagtaa nangccccga 60  
 aaccanatgc tcaccactac tagaggagaa gccacatttt gnncaactta acctcctcct 120  
 ctaaacacca ttaagaaaag ttgttttcac atccatttgt tgcaactcaa ggtcaaaatg 180  
 agcaactaat gccaaagataa taccaagaga atctttctta ggtactggag aanaagtatc 240  
 tatgtagtcg attccttctt ttttaagtaaa tcccttagta acaagtcttg ccttgtatct 300  
 ctcaatgttg cctaataaat ccttttgggt cttaaagacc catttacatc caatggcctt 360  
 taccaccatta ggcaactcta caaggttcca aactctgtta ctctgcatgg aattcatctc 420

atccttaatg gcatcatacc atanatttga ctctttacaa ctcatggctn gatcaaaagt 480  
gtcgagatta ttntcagctc caatattaaa gtcagatn 518

<210> 13500  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13500

atattatcta ctcanaaagt acacttctct atatttgcac agaggggtgtt cttcctaagg 60  
actgatagaa cttgcctgag atgtcctaag tgatcatcta ggctcctact gtacactaaa 120  
atatcatcaa aataaacaac taagaatcta cctatgaaat cccttaagac atgatgcata 180  
agcctcatan aggtgttttg tgcattagt agcccaatag gcatcactag ccattcatac 240  
aaaccaaact tggctcttgaa agcgggttatc cactcatcac cctttttcat tctgatttgg 300  
tgatacccaa cttaagatc aattcttgaa aacatattg 339

<210> 13501  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13501

tacacaacct gcgtgagcaa tagtaatatt atccccagcg ttgcggttagg gataaaattg 60  
ctctggcagc aattagccaa ctctttcatc actctcctaa gtctcgtcgt aataatcttt 120  
gtaattatct tataggatac attataaaga ctaatatgac aaaaatgttt catagacgta 180  
accggctaca cctttgaaat aagagctaca agacgttcac tgatcatctt cacttttagt 240  
ggctcatcaa aaatatcttt tatgagatcg caaagagaat ctcccacaat ggtccactgg 300  
atcggtatctt gtaaaaaatt gactgtcagc ntctgcact 339

<210> 13502  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13502

acaggttcag gtgcagggtgc tgctactggt ttatgcactt tattttgctn gccagacctc 60

agggggatag cgctcacatt tttcggatta tgcacagttt gtgaaggcaa tttgtcagaa 120

ttttgggatt gagctcgggt catctgagta gccatctgcc ccatctaatt tgtcagactc 180

tgaatgaagg ctcttgtctc tagctgaaat tgcattattct ggatgggtcat ttgcctcact 240

aactcctcta atgaagggtg agacggggcc atagtttctc gtagtctttg ttgttgttgc 300

tgcattggag gatgatcata tggcctgctt ggaccaacag cattctggat aagagggata 360

agttgttgtt gttgctgttg tggttgtgga g 391

<210> 13503

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13503

actaagcttc cttgagaaga ttcccga aaa actagagctt atctacacac acctctctaa 60

taactaagct cacctcttta agatgagaag ctagagctta gctacacacc tcctataata 120

gctaagctca ccccatgcc aaaatacatg aaaatacaaa aaaagtcctt actacataga 180

ctactcaaaa tggcctgaaa tacaaggcta aaacctata ttactagaat ggccaaaata 240

caagcccaaa aaagaaggaa aaacctattc taatatctac aaaaaagagt ggaccaaac 300

ttggcccatg ggctcaaaaa atctaccctt aggttcatga taacctagg atcttcttta 360

gcaactntaa cccaatctc ttagagtctt ctatccaata cctggggggg gtaggattgc 420

atcataatgt tagcctgttg aggctttctt tccatttct 459

<210> 13504

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13504

caccagctc gccaggcga gctcagctct ttctgcgttt cttgttgctn cctccagaag 60

gcaccgtctt ctggataact tcttgggaagg cccaagtggg cctgggttgc atttgcaccc 120

cctgtttact aaatacaccc cctgcctttt ttgttgattc tttntccgta acattatgga 180  
actttacgaa ttttgtaacg atacttgttt tctttccgta atgtcacgga accttacgga 240  
ttatccaata atgcttcctt tcgaatttcg gcatgtcacg gaacttcatg gattgcctaa 300  
tgatgggtgc caagtacctc gaagtggta aacgagggtc gcatcccaac aaacggatgg 360  
tccccggacg aaagtatggg atgacaagta gcatgtcttc tataaccatt tcttgacaac 420  
attattnagt atatctcaaa agaggtaac 449

<210> 13505  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13505

ggganaccct atcagagcaa acagaggaaa agtgttgang aattttanga atctactaga 60  
gatgctacta tcaactgacgg actacacaca tgagcccgt tagaggtaag agatgagttt 120  
atcacaattg gggttagaat gaacatgtgt agggatcctt aggggaccaa attgggattt 180  
attttgggat gtttattgaa ttataathtt tcctttatga ttataaatac aatattgttg 240  
tgtttgacag accaattgat gtcctgatgc aaattggttg ataaaattga gtgttcttgg 300  
tgttttcgtg tttttaacct atgatttcga ttcattgatt ttgggtatgat tgtgtgaaat 360  
tgtttgaggg gttttacttc ccatgttggt agaaacattt ttgtatanat tatntgtact 420  
ttggacaaga tattctagat tgacatgata 450

<210> 13506  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 13506

tgaaacacag aaaggtgcga cgggctcgga gtaagatctg agctgaaatg gggaacgaga 60  
gtgatgacct gcggaagcgg cggctgtgga atctcgtgat tttggacgcg ttatgtgcgg 120  
acttgctata tgctctctg acattggagg tccaaaagga cattgtgata tgggttcaag 180  
caatttataa gctacttttt aaccattggg gatgttttgc tcggaactcc ttttaatcca 240  
ttttttgtgg atggatcatc aatga 265

<210> 13507  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13507

ngagatgagg aagtgttgaa gggttataac ttccttcttt tattgttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg nggtcaggag accttgggga cgtcagggtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccggggca tagtcgggtca gtgagaacct 180  
 gtgatgtacc taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac 240  
 aaagtaagga ggcttgtggt ggctggccag ctgtgaaatt tgtgtaatat gtggatggtg 300  
 gcctctggta atcgattact aagggtgggt aatcgattac aaggcttata aatgaagaca 360  
 ggaggctaag atggtctctg gtaatcgatt accacg 396

<210> 13508  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13508

caaactttat tatctagaaa tattgtctga aggattatat attctaggag gaaaacagag 60  
 atcactccca naccacctcn atatttaaaa acctttgctt ctagagttga gaaacanacc 120  
 attntcaagc ataaaagaaa gattnttaac aacaagctct atacaagggg ccatttcacg 180  
 atggtatgaa gtaatacttc atataacagg aagaatggca tgagaagatg agaaaacccc 240  
 tcccatacct tgggtaattn taaaaatggt tcgaatgtga ttataaatnt cattaccttg 300  
 tagctcaagg tctcctctac aacatacttg aatttgagga agaaaaacat ctttcttgaa 360  
 cataaaagtn taaagagaag ttagggaaat ttagagaaaa tgatgtagag cactctagga 420  
 gagagagaaa aatg 434

<210> 13509  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13509

tcctacggcc tgcctccaga cttcaccccc cgtgccactt cggaagattt taaccaagcc 60  
 cttacttttg aggggcaact cccaccttat gaagactttc ccgggcaaga cgatggggaa 120  
 ggagataccc atcttggccc cctgctccac ctcaaagatc catccccgca tgaactaccc 180  
 tagccgaaca tagtccgcca tatcccggcc tcacccacac ccgtaaaaga atctgttccc 240  
 tttgcagaag gtaagggaaa gattgaagcg cttgaagaga ggttaagaac agtcgaaggc 300  
 ctccgcaatt acccattctc ggatttggca gatttatgtc ttgtgcccaa catcgtcatt 360  
 cctcccaagt tcaaagtacc agactctgat aagtacaaat ggacgacatg tccaaaggag 420  
 catctncgga tgt 433

<210> 13510  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13510

ctttcaaagt gattcccact gaanttatta ttagacagat tgagatatct taatgatgaa 60  
 agttttccaa atgatctang aagagcacca ccaattgagt tgttggaana atctagcagc 120  
 acaatatatt taaatgcccc aatatgatct gtcagattgc ctganagttg tgaactctga 180  
 actgcaagtc ttgtgagtcc atgggaaata caaggagcaa gaatttctaa aagttcatta 240  
 acctgttggt tgagtttgag atatgatana cctatcacc ctaagttgca gacattaccc 300  
 aaagaagttg gaatgtttcc ttcaagttga ctatatgaca natcaagtc 349

<210> 13511  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13511

cacatgggta caagccaaca caccattttc tatttttang ccanacttct tcttctagt 60  
 ctccattaat tangagtttg attcctgana ggtgcagaca cacctgcagg ctaccctgc 120



aagccacctg ctaatagaac attgatgact ntgtgtacac tangttatag ctgaagctgc 180  
aatgtcata aacataatga atgatgttgt gaccccagct tttgtggcta gatcccatgt 240  
cttaattatt tttttttgaa ctgcaaaaat aatttatatt aaaagataaa gagtaccagg 300  
ggtactatat aaacacacag gagtaaagat ctctgaaaa tgataacaaa aatacaacaa 360  
cccaacaaat acagccacaa acccaaatct acaaaccac tctaattaaa agctatagac 420  
atagctg 427

<210> 13512  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13512

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aatgtgagcc tttttccctt ttgaaagact tgtaaataaa atgttttaaa attactttta 120  
attaatattt gaattttttt attccttatt agtatatatg tgaggggtag aggggtgtcac 180  
acttagcata ttttgaaatt tcaaaatcaa attaattcct aacaataggt tcagggtcatg 240  
tagatctcta cattgtttcc ttttgttatt ttcttttggt tattttgttg ttgtctttaa 300  
tttatacttc cataaagctt ttgtggacat ttctgacttt cgccaataat tgggtgtaaat 360  
taggatccaa aagcctcggg caagactcat tcatgtctgt tcctaataag gaaaacttgt 420  
gtcacattcc caggtgtgct cttcaattct g 451

<210> 13513  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 13513

gagcacagac cacataccct tgcaacaggc acagattact gatgagagtg caactggggtt 60  
accaagttaa ccaatgcac cagttagtct tccaacttct tagcttcaca tgatgcagct 120  
gagtttgtat ctacctcatg cactcctcta atgactatag catcattcct ggcgctaagc 180  
tgcggaatga tggaggccat cttctaaatg aaattactgg cttcaggagg agtcatgtct 240  
ccaatggctg caccactggc agcatctatc gtacctatct ccatattact gacgacttca 300

taataatata gcataagaag ttgatctgaa ctctga

336

<210> 13514  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13514

cacgacaacc aaatgagaan atgcatgtca aagtttatca tcatatnact nttattggct 60  
ttgataataa ccaaatcaga acgacatcta aagtggctat tgctaaactg ttattaaatt 120  
tttgttcctt tcagattgta aaattattta tttttttatt ttaatgttta tctctttaa 180  
tattttattt tcttcatatt ttaaattttc ttttaatttt aaaatgcttt tgcaacaatt 240  
aaacaaaaag tgcattccgcg aagtaattgc tgtggacctt ttatagcttc tataataact 300  
aaattagaag tgcattccaaa gtagtgacta ctgaagcttc attntattaa agttattatt 360  
aaaaatgtta ttattattaa tattatcaat gttattntat atttctaagt tatgatgaac 420  
atatgtatac aatntaagtt catatgact 449

<210> 13515  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 13515

taaccatata tccggaggaa ggggtgtaca aatgaagtgc accaagaagg actcacacat 60  
ataaacctcc aatatcataa tttagagctaa aagatctcgc atttgcatta tgtactaatg 120  
cacaccttac aactgggtga gctccagaga ggagaacttc atgaccaggg tgctttactt 180  
gctaaagccc tatctgaagt gatgaactag atatcaatag ccttacgcag gtctcatact 240  
ttctcatgtt ggtcaacaaa accacatata ctatccgaga gttcagcctt ac 292

<210> 13516  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13516

ctcaagctnt gagcaaattc aaacgacaat aactattgac tctgatgtcc tattgtgttc 60  
cgtaatatat cgagacgctc gtaagtgaga acagaagctc tgagccaatt caaacgacaa 120  
taacttttaa ctcgggtgtc cgattgtgtc tcgtagtata tggagacgct tgaaattgaa 180  
aattgaagct ctgagaaact caaacgaaca taacttttga ctccgatggt cgaatgtgtc 240  
cccgagtata tcgagacgct cgtaattgaa aacgaaagct ctgaacaatt tctaacgaca 300  
ataacttttg actcggatgt ccgattgtgt cccgtagtat atcgagacgc tcgttattgg 360  
aaatagaagc tcttgaaaaa atcaaac 387

<210> 13517  
<211> 217  
<212> DNA  
<213> Glycine max

<400> 13517

ccttgagatg aggaagtgtt gaagggtgaa gcttcctgct tttattgttg accacagagt 60  
ggtacctgga gatatgtcgc gggggtcagg agaccttggt gacgtcagggt ggggtgctat 120  
tgcccaaaac caagcttgac caatcccgc ccaaccggg catagtcggt cagtgagaac 180  
ctgtgatgta cctaagcagg cgagctcctg gcagtct 217

<210> 13518  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 13518

ttcgaggtag ttaccggttg tatatcgaag atcgatgatt atcgaatgaa gaacgtcgaa 60  
gaacggttga gatctttgcg aaattcctca cggaacacgt tacggaaacg tttcggaagc 120  
gcctcggctt agattttctt cacggaaaca atttttccaa gcaaattcga aagagagaga 180  
agtgcctaag gggctaaacc ctttttcctt ctacttcct cccctattta tagcaaaata 240  
ggggagggtg ttgccgccc gctcgcccag gcgagctcag ctgcccagg cgagctcagc 300  
tcgcccaggc gagcaggggt gcttcctcca gaagcaaccg ccttctggag gaatattccg 360  
gagggcccaa gtgggcctgg gtgctatttg caccgccatt tttactaagt acacccccct 420  
ct 422

<210> 13519  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13519

tgtaggatta tggngtacct atcacatgtg gtactangtg gttgtcgggc gatggtgcac 60  
 aacaagtgtt ccacatccac aaagcgcgca taaaccacc atcccctgtt gccacactcc 120  
 aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180  
 atcaatcctc ccaagctttc ccaacatcca agtaatacaa cattcaaaca gcacaaatta 240  
 tcacagccaa gcaaaatagg gcaaaggcag aaaaactctg cccaaaacac caaccaaatt 300  
 cacagctttt ctcacttaaa gacccagta acaattcctt cgttccaatt cgttaaccgt 360  
 tggatcgact cgaaaatttt actggaagtc tatagtactt aagcctacat tgtgaccggt 420  
 gggatctact agcaaacatc tagaactca 449

<210> 13520  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13520

tctgcaaggg tcatgactac tgtaggagac atgtttntct tttcttaatn cttttaatat 60  
 tngccttctt tcttcttccc ttatttggtc cctctcacct tgatttatcc tacctctctt 120  
 tcccttttct ttctttctag ttntcctttc cataacttga gggaactcaa ctcatctaag 180  
 attctagaga gagaaagtcc ttatgactag taccctcacc attaacacta gatgaaagat 240  
 gactcctatt ggctcctaag ttgtgggtct ttcttgctgg gggtttgcaa aaggtaaaag 300  
 ctagggttta aaagaactca agataagcgt gataatcaag aagaaagtat tatgtaataa 360  
 caagataaac taggtgtgac tattaagaa aatatgctat g 401

<210> 13521  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 13521

ttggcaccta atggtggggc tgtcaaagaa ccctacaaaa aaattaagca caacggtggg 60  
atggcttctc attagaaaca caatttatgt tgaaataaat attgaggata tattatatct 120  
aaatttcaac attcaaagaa ataaatagag acacatatat ccctgaaaca taccaacata 180  
tcaggtttaa tgctgtacc atcaacatct ccctcttcaa catgccacc agagggaata 240  
tctacagaga ctataactga tcttttttgg ccaatttgat tattattatt atgtaaagag 300  
acaagtctct ggatcaaata atc 323

<210> 13522

<211> 316

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13522

tatgtcgcgg gggtcaggag accttggggc cgtcagggtgg ggtgctattg cccaaaacca 60  
agcttgacca atcccgacc aaccgggga tagtcagtca gtgagaacct gtgatgtacc 120  
taaacaggcg agctcctgac agtcaacaaa taaaagaaca aagaccacaa agcaaggagg 180  
cttgtgtggt ggctggccag ctgtgaactt tgagtgttat atgggatatg gcctctggta 240  
atcgattacc aagggtgggt aatcaattac aaggcttana agtgaagaca ggaagctaag 300  
atggcctctg ataatac 316

<210> 13523

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13523

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tgttctgcag ctcgaattct ctgtccaagt agagtacttg catgtcgttg gttctttcac 120  
agccttgata ttctgatttg agataatccc tctggcgaac ttgatgttca taattcttgt 180  
aaaaatgatt tttaacatag cgaagaaaag acaattttta gcctaaacct tttttgtctt 240  
cctttctttg tgattcttca tttgagccgt cgttgaattt aaagatagtt cagggacata 300

atagttttct tctagtgcct tccaaagatc caatgcttca agatgagtag t 351

<210> 13524  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13524

ggaagaagcc ncaaggacaa ttgtatgtat ctnggattat taagaataag aagaaaatgg 60  
actcctctcc ctcccttgaa gaactcatga acaacaatgg agaatgaagg ttccaagttt 120  
gatatttttg gaggagtga gagataaggc tttaaggctt ggtccaaatg aaacttggtt 180  
aggcttaatg ttgataagat caaattgaca aaatgaatga ccatttgata gccatgggtg 240  
aagtgctaaa tgcggccata tatgggtatt ttgccttttg aatttttaac cagaaatggc 300  
taaagtagac ttaagcaaaa atggtaaagt aaaaattatt tttgctaaaa ctggtaaadc 360  
ttatcctaata cttctatatt agtgtgctaa cttcctagat tagtgtgctg acctcccttg 420  
ggatatgtgt ctttagagtg aacc 444

<210> 13525  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13525

gatgcagcag taatgatgta cgagttatgt agttgaacgg nnacnaaccc gggatggggtt 60  
tgggcaaata caacagtgaac ataactagcc tgataaatgc caaaggaaat cgtgggaagt 120  
atggggttagg ctataagccc actcaggcag atataaagag aagcatcgtg ggaaggaaga 180  
gcggtagtca aaactcgcgg ttgagacaag aagggtgaacg aagcccaccc tgccacataa 240  
gtaggagctt tataagcgcg ggtctggtgg acgaaggtca agtggtcgcg atatacgaag 300  
atgggtgttct gagtacattg gatttggtac gaccatgccc tctgat 347

<210> 13526  
<211> 548  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13526

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 ncnactncga naanatnaac agaaanaaca nnnagannag cggaacgaga ggaagaagaa 120  
 actcttgagag tgttttanag ttataangag nagggagcnc tgggggtctta gagagagtga 180  
 tactcctaaa tgcttgagtg attcaagaac acactgtgtg tatcaaagga ctttcacagc 240  
 ctttgtgtgt tgccctcact ggaaagagtg actctatcct tcctatcatg ttcgcccttg 300  
 ttctttcgaa ccacaatcac agagaaatga cgtctgcgca gaagcttctc acgagcgtaa 360  
 cttccatggt acacactaca aggaagtgag tcttgagcct aaattgaagt gtcaaacaag 420  
 accttgctcc ttagtgagga atcacctcat agagaggccc tgatcttcct gtacagcgat 480  
 ttgtatattt ctgacagcca ccactcagac tatgatatac catacgattc atgcatatta 540  
 ttgccaag 548

<210> 13527  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 13527

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 gattgaacct tgatcctgta cagtttatct ccttctacct tgtcttaggt tgtaggagag 120  
 cctcattcat aaaaggagat tttgggttcaa agcaaatttg cccaaatttg gaggaattat 180  
 ggggtaaaaag cttgtaatgg taagaacaga gcaacacaca caatcatcta ataagcagca 240  
 agtattaaaa aaaactgtaa gtataaaaga aaagtgtgtg tgtttctatt taagaaaaat 300  
 aaaaggtaag tgcggaaagc aagtaatata gatgaataaa aagaaaaagg tgatc 355

<210> 13528  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13528

acacttagca actcaagctt gtgcattcaa tatgctgata aggggtgttcc atatgttctc 60

tttactggac taataaattt gctgcccgaag tttcatggtc ttgcagatga agatcctcat 120  
aagcatctta aggagttcca tattgtctat tcttccatga aacccctga tgttcaggaa 180  
gatcatatct ttctaaaggc ttttcctcat tctctggagg gagtggcaaa agattgggtn 240  
tattaccttg ctcccaggtc cattaccagc tgggatgacc ttaagagggg gttcttgga 300  
aaaagtttcc ctacatctan gaccactacc atcacgaaag acattntcag gcatcagaca 360  
acttagtgga gagagcttgt atgagtactg ngaaagattc aagaaattgt gttcaagggtg 420  
tctcaccac cagatttctg agcaactcct tctacaatat ttcta 465

<210> 13529  
<211> 214  
<212> DNA  
<213> Glycine max

<400> 13529  
atgctcacga gagaacatgt gatagtatgc tcacctgaaa aatgaacaat tatgagaggt 60  
gttgcacaga gcacacatag aacttttcat caatatgggt tatacaaaca attcttctta 120  
catgacagtg cattcaagac atttagcttg ttagctcttg ggccacatct cattgttcca 180  
acttgtaagg gatatgatat caatccctat tctt 214

<210> 13530  
<211> 290  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13530  
naagctatat atatgtntac atatggcaac ataattcagc gaaattcatc attggtgaaa 60  
aggggaaaat gttacgaaca tcataacaaa aaatttgtca caaaataaaa ttaaacttat 120  
ttggaatttt tcaactcgtt caaatcaagg gaaaattata caatagaagg aatagagagc 180  
tactccctt tattattatt attattatta ttaatttaat taaaacaagc aacacaaaat 240  
attttataac aaataatata tattttaaatt ttaaatgggg atgttacatg 290

<210> 13531  
<211> 405  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 13531

agcttgcggtg ttgtgttgca tcggggaaca atttcactgt aaaagtgggt cccaattgga 60  
ttcctaattt tcaacttacc tatttggaag tgacatcatg gcagttaggt cccagctttc 120  
cattgtggat tcagtcacaa aaccaacttc attatgttgg actatctaac acgnggattn 180  
tcgattctat tcccacacag atgtgggaag cactntctca ggttttgtat ttaaacctct 240  
ctcgtaatca tatccatggg gagattggga ctacattaaa gaatccaata tctatcccaa 300  
ctattgatct aagctcanat cacttggtgtg gtaaattacc ctatctttca agtgggtgtg 360  
tcggttagat ctttcaagca attcattctt tgaatccatg aatga 405

<210> 13532

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13532

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agtggatggc gcctcctctc acctcttctc cttcatcttc cactgcatct ccatgggtga 120  
naatcaccat tgaagaacct aattgaaact catagatcca gcctccatag aagcttctca 180  
agcaagcttc aatcaagtgg taatcatagc acatgagctt caagtaggtg ctccgtaaac 240  
ctttattaat tttcagcatt accttttctc acatggttgt gtcttcatta ttctccatgt 300  
atctactcac atgtcttgtg ctgaatgttg tgaagatgat tttttagact atccaccgat 360  
taaacttgct atagaagcta gatttgactt tctatggttc aaatctc 407

<210> 13533

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13533

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nnnatacana ctgcgaggat gacccccagg gagtgaggct ggttttgggt tttctgacta 120

ggttacggaa attaaaaatct catattatca cttagctcaa cacacttcct cataacttaac 180  
 atgcacattc agaaattcac acatgactaa ctcaagtcac ccctcnaat attcaagtca 240  
 gccatatagt caaattacaa gatanatacc acttaaatat caattgataa ctataaatat 300  
 gtaagaggtg gtacaactct ccacccttgt agaaattcgt gccgaattt acctgactca 360  
 aacaaagatg gataggctgg tcgcatctga ctctctactc ccaatggaat ctcttccttc 420  
 tatgtgtttg gcacctatcc tcacctcaag acaagggttat atgcaagtct cttactgacg 480  
 tctccaatcg accctgagat gtcag 505

<210> 13534  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13534

tggaccctca naaanggcag acttggagat tcttatcgag tatattaatg gaaaacaaat 60  
 gatcaaaatg aatttatgtg ccgaaagagc taaagatgtc ttataaataa ttcatacata 120  
 tatttacgat cctttcccta tggattcaat gaatggataa atgtatttca ttatgttcaa 180  
 agatgagtac tttatcttta atagatgaga agtcatggtc tttaaatggt ctcaagcctt 240  
 tcaaagctga atttgaactt caattaaata agaaaattat cgttgtcaca tctgactgag 300  
 atggtgaatg atagcgttac tatgacatac attgtgaaca acgtctacaa ctcttcacat 360  
 ttttctctt 369

<210> 13535  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 13535

atgaacccta ccctaataata aacactaacc taaccctacg cttaacacca aaccctagac 60  
 ccttaaccca aaattctaata ccctaaacct taacctctga attctaatac ctaaacccta 120  
 aactctgcat tctaaacctt aaaccttaaa ctctaaacca caagggttag acaataaacc 180  
 ctacatatta aaccataatc ccttaacctt aaaatttaaa ccattaaccc ttaaccctac 240

cttttataacc ctttaaccct aaatataaaa aataaaccct aaaaaataaa tcctaaattc 300  
 taaaccctaa acccttaac 319

<210> 13536  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13536

atacctgata gagaatgata taacttcaaa tgggaccta agaattaata acctatcttt 60  
 accaaaaagt gattacacca ttacaaaata cccttcattt ggaggaagtt gatccattta 120  
 cacaggttta tacacaaaag tagtcgtatt catcactaac actccccaaa ttatagtttg 180  
 cttgtcctca gcaaataaag acagctcact ggtcccatgt gacaaaacat gcaatgacta 240  
 tgtcaaggtg tatgcacaaa agtattgatt gatgataaag aatgaacana atgcctcatc 300  
 acttgtcttc acaaacatgc agttatcaaa gagaaaataa atgtacctgt caatagatga 360  
 agt 363

<210> 13537  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13537

agcgaagcaa tcntggtttt ttatggcaac anaggacagc gagagtgatg ctatgtgaga 60  
 tgggtgcatac gtgtctatca tcacttttca ccacaagtta caagtttcca ttcaactggt 120  
 cccatttcca ccatattctt gtggctatgg gagaggatta caagataagg tactgagagc 180  
 tcaccgccct tattataata atcaccttat cattacaata aa 222

<210> 13538  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<400> 13538

ttacatgtac ttccaaagtg tatttggttac ctacatcaca cacatttcct ttgctaaatt 60

cacatacatg cataactctaa gcactttgtc tatcaaaaaa tgcatacgtg cacatcttgg 120  
tattttctaatacctatacat acacaaactt cattatgaat cttgactatc taca 174

<210> 13539  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13539

aganggagat gtggctgact ganctgaaac accgcacgga cttatgaccg agcgcttctg 60  
actccttctc accccgagac gggatgagta tttaacactc gtacccaaaac aacactgaat 120  
cactgttcca ggogaacgag tgggacatcc cagtcggtgc atttgaagga ctattcgcca 180  
gagagaacga atgaaacgga cttcgagag ataccgcgga ggatgcctga aagtgtgaca 240  
ttacgcgctg ctcaaggaga actgaaagtc cgggagctgt ggaccagaga ttctgatgag 300  
cggcgaac 308

<210> 13540  
<211> 527  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13540

nttctaagtt cccaagccct agcnancnta nnnnctnann nnatanacac ncaagcnng 60  
agcatgtcat cncgagaaag gagcataaga attttcattt ttacttttcc ccaacaaaag 120  
cggggagagg atatgaatat agtagacgaa ctgcgagttc tatccaccat atgtgatatt 180  
ctatagtaac cccacactgc tagtttgaac atgaggaaag ctgtagaaga atataaacia 240  
ttccttctca tataatatca taactcacgc taggtgtcaa tgtacgaatc aaactaattt 300  
ctatggacca ttgtgaccta cataaccttc tgatcatcat gattattcgt tggacactgc 360  
tatatcaaga attgacggat gaactctgtt catttggtc cctatcgtat gctgtcaaat 420  
cttaatagat ccgacattaa tagcgcgtac actttgcaat catgacttca caatatcact 480  
tattactatg ctcatgaga aaaccgctg tgcttgactc atctttg 527

<210> 13541

<211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13541

tatgcttgaa ttgcttatng gatgcccatt ggttaacttg gtaagcccag ctttggcctt 60  
 gaaccatgaa atnntgtacc tgttgcaaag ggtctgtggt ttgtgctcct ctgctgacca 120  
 ccatacagac ctttgcctt ccatgcagca acctggagca attgagcagc ccgaagctta 180  
 tgctgctaata atttacaata gacctcctca acctcagcag caagatcaac cacagcaaaa 240  
 taattatgac ctctccagca acagatacaa ccctggatgg aggaatcacc ctaatctcaa 300  
 atggtctagc cctcagcaac aacaacagca gcctgctcct tccttccana atgttgctgg 360  
 cccaagcaga ccatacatc ctccaccaat ccaacaacag caacagcccc agaaacaacc 420

<210> 13542  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 13542

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 tgttaacatt atagtacttt gatttctagc catgtatttg gctatattat tatgacattt 120  
 gaacaattta gtatttcatt tatttgcata gtatgattga acaattatga attatgttaa 180  
 atgactatgt ggtttttata tatttgatct attcatgtta cttgcttcat gattgggtta 240  
 tatttttcaa tgaatatctt gtgaatgatt agtaatggat gtatgtatta tattcggtac 300  
 gcactttggc tttttgttga tgccaaaggg ggagagaaat ggcgattaaa tcaagaactc 360  
 acataagtaa ttaacttaat ttcaagtga 389

<210> 13543  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13543

agcgtttatt ataaccatac aatnccgancg catntatcat gaaactaccc taaaccaaga 60

caacagagta gaggcagaac actctgtcca aaactcattc aaataccaca gctntcctta 120  
ctcatatacc ccagtaacat tctcttcggt ccgattcggt aaccattgga tcgacttgaa 180  
aattttactg gaggttccta gtacataaat ctacantttg accgttgga tctgctagaa 240  
atgcctggaa cccgaaatgt actactcttc ccatgactag caatgcacaa ccatntttct 300  
gcactatggt aaaaaaactg ctgcacaatt ttgacagcat ttttctgcat aatat 355

<210> 13544  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13544

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gatcatccta ctaggacgac tgaganaact gnngcaaata aagagggtga ggatgaagga 120  
gaaacccatg ctgttactgc cattcctgta cggccaagtt tcccaccaac ccaacaatat 180  
ctttactcag ccaataacaa actttctcct taccaccac ccagttatcc acaaaggcca 240  
tcctaaatc taccacaaag tctgtctacc acacttccaa tgacgaacac cacctttagc 300  
acataccaaa aacaccaacc aagaagtga tnttgacgc agatagcctg tagaattcac 360  
cccaattcca gtgtcctatg atgacttget cccatatcta ctttgatatt caatggtagc 420  
cataaccct 429

<210> 13545  
<211> 508  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13545

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gnncngggga nccncngac gcgaggcgaa ggcaggcatt ctaggctaaa tanaananan 120  
caaacaaggg gacagagagg attttatagt tcaccgaaca aaaaatgttc actaataata 180  
atctctttat aagacttatt actatgaact aataatatct ttcatatata tatatacata 240  
tatatataga tatatatata tatatatata tatatatata gacacataga tccatctata 300

taataagaga caactgatat ctaacacggt agatctgttg gtcctcgccg cgcgggatac 360  
aatagttata actcacgtgg gcagaggtag cctaccggtt aagaagatat atataggga 420  
tgcgacactg cgggatccga ccacgggtgg ctgtgtaaca catcctatct gatgggttct 480  
gtatagagtg cgatatacat caccgggg 508

<210> 13546  
<211> 302  
<212> DNA  
<213> Glycine max

<400> 13546

gataggaatc gggttacaaca aagcggattg gttctttgaa aggttaagtg atatgatgag 60  
atctgattca agtcgctctg ctaaataatga cagtaacaga gtgtatgggtt gtccttggtt 120  
ggatgggttct ttaaagcggga atctacctgg aagaccagta gcttgacaag tctacgggtg 180  
agagggtgtca tgttcttttc ctatctaatt aatcattaca attgtatgtg ttctgagacc 240  
gctgtgattt gatgtattga ttatcattcc aagccattaa cttcatcaac ctgatttagc 300  
tg 302

<210> 13547  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 13547

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atgactgttg agacaaaacc ctcaagaaga acaccttaag ttatctgaac ttagctacta 120  
atggtttctt tgagtgtgct ttaaaagaca tgactaaatt cagaaacaca gagaatgtgt 180  
gaaacatagg cctacagttg aagttctcta gacataatat gcataatcag actaatacca 240  
ctagaaggag agttgttcaa aaccaagaca gacaatcatg ttttctatgc cgataagtcc 300  
aaatatcaaa agttgtatat gatcagaagc atcatgctgg gagtagc 347

<210> 13548  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13548

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gtttatgagc aactcaggat tcanaagatg tgacatggac cattgctact atgttgagaa 120
atatactaata agttatgtta tccttgctgt gtatgttgat gacatgttga ttacaggatc 180
tagtatgata gaaattaata gtttgaagca atagttggca gaaaactttg aaatgaagga 240
tcttgggtcca gctatacaaa tccttggtat gagaattctt agaaacagat cagaaggaat 300
tttgaagttg tctcaggaga aatatataca caag 334
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<210> 13549  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13549

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tatcgagaca ctcgaaattg aatgttgaag ctctgagcca attcaaacga caataacttt 120
ttacttggat gtctgattga ggcccgtaat atatcgaaat gctcgaaatt gaatgttgaa 180
gctcctagca aattcaaacg acaatatctt ttactcggga tgtctgattg aggcccgtaa 240
tatatcgaga cgctcgaaaa tgaatgttga acctctgagc gaatncaaac gacaataaac 300
ttttactcag atgtctgata gaggctcgta atatatcgag acgctccaaa ttgaatgtng 360
aagctctgag ctaattcaaa cgacaacaac tttttactcg g 401
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<210> 13550  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13550

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tcaacattca atttgagcgt ctcgtaatat tgctgtactc tttcagacat ccgagtaaaa 60
atttattgtc gtttggattg gctcagagat tcaacattca atttcgagcg tctcaatata 120
ttacgggact cattcagaca tccgagtaaa aagttattgt cgtttgaatt tgctcagagg 180
ttcaacattc aatttcgagc gtctcgatat attacaggac tcaatcagac atccgagtaa 240
```



aaagatatattg tcgcctgaat tggctcagat cttcaacatt caatttcgag cgtctcgata 300  
tatgacggga ctcaatcaga catccgagta aaagttattg tcgtttgaat tgctcanagc 360  
tcaacattca atttgagcgt ctcg 384

<210> 13551  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13551

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tggctaataa cagtcgaata acacacttac acaaaataact tccctaaaaa taatcatacc 120  
aaaaatattg cttcaatact taattccaaa ataaacaaac ccatacacct cacaatcaca 180  
tgcaatacaa ggcaaacaaa agtgggctaag cctactcggg acatccttct cattatgaga 240  
gtgatgtngc ntcaacattt atttttttta tagtacttgt agaccttata cacatgttct 300  
aatcatcata ggtaacagaa aatanatnta atcatcanag tcttgaatat ataaccacaa 360  
ttcacataag gaactttaga atnggaagtc taaaat 396

<210> 13552  
<211> 127  
<212> DNA  
<213> Glycine max  
<400> 13552

agcttgctct atatatatat ttgatgtttg tattgatggg aggaggggtac atgccatttt 60  
tgctttaaga ataacgtccc actggtaaaa ctaactttcc aaatgtttgc cttcgcaaga 120  
atggccc 127

<210> 13553  
<211> 498  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13553

agccnccccn nnnngcaggct agtngcaagc tacnancgca cactctagna aactcaagct 60

nctgttctca atacgagcgt ctcgatatat tacgggactc tatcggcatt ttgagtaana 120  
 agtattgggc gngtggaatg atgctcagag ctttcagtn tcaatattcg agtcatcttc 180  
 gatataacta caggacaca attcggacaa tccggagtca aaaggatatt gtcggtttga 240  
 atttttcttc agagccttcc cgtttcaatt tacgagcgtc tcgatattac aacgagacac 300  
 ntcggacacc cgagtaaaaa ttattgcctt tgattttctc agagcttcta ttttaattac 360  
 gagcgtctga tatatacgga cacatcggac atcagtaaat gttatgcgtt gaatgctcaa 420  
 ctttgttcat tagacgtca ttatacggac tatcggttc agtaaattat gcgttgattc 480  
 tcaactagtt catacacg 498

<210> 13554  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13554

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 gccataccgt gtggtacaaa caataatgtc tcaaaacaac taatggttcc gctttttcaa 120  
 gccctcagaa cctatgatgg gtatttaata acaataatag tagtctagtg cagtaagtat 180  
 ggagaataag ttctattgca cgtatggaga ataaaagctt tgtttggtga attgtgctat 240  
 ggaaatgaat ccgccgttat aaaaccttgc tttagatacg aaatgtttct agaaatggga 300  
 gacaatataa tanattgtgg aagttttctt cctattattt gattcctatc tgtaggacga 360  
 tatggaattc gatgttgtag ttcaaacatn 390

<210> 13555  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13555

attgccttgt ttggatgang tagacatacc ctttctggtt tagggctttt gtgatgaatg 60  
 ttgtgatgtt tatatgctga aaatggctga tgaaaactat taaaaatgaa gggtaaatta 120  
 aacctagggt aaaaaagtga gaatgtggtg tatgagtggg aaaaggatga gactttgaga 180

gttgaaggt aagtctgaat tcttgtgtaa atggagggtta aatgagtaat cctagcttga 240  
atgtcattat gacatgtgag aaaggtangc tgtgctagag ggaaaacaaa tgaccaagtg 300  
aacaaagagc catttctagg caaaatgggt gttaagagtc aatttgattn gtgagatttg 360  
gtgtaatcca gtcaacaatc taatag 386

<210> 13556  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13556

agctgggtatt atacaatttg gagcattctc atgctctnca aaaccaaac tcattcttcaa 60  
agctggcttt gccatttcat ccacaacact gttggcttct ctgaccacat gattccaaac 120  
ctcattttca tattgccctg aaaatctgtg aatctcttcg acaagttgat gctgaggatg 180  
acccanatca catctcccat caagaagggt tatagcctcc ctagaatccg aatccacacg 240  
aataagtcga aaagccgacc atgcaaactt aagaccaagt aaaatggctc gaagctcagc 300  
ataaagaaca ctgcctcctc cacttttggc ctgaaaactg caaagcaagg aaccagcaaa 360  
atcgcggtt agccctccat agcccgaag actgccaat tgagcaacag atgcatcac 419

<210> 13557  
<211> 151  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13557

agcttgggtat taaactatth anagattaan anacaggcag gtggaagtga tgcctaacat 60  
ggcttataac agtcgaataa cacacttaca caaaattctt tcctaaaaat atgcataact 120  
gagaatactg gttcaactct taatacatga t 151

<210> 13558  
<211> 521  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13558

agggcnnnnn ggggtctagt actgnactan cgacntcaga acntaaactc tgctcantgg 60  
cgaagaggtg tctaatacaag atgattttat catcttcaac acangccacc atgcagtatt 120  
cagagatata tgcatacatc aatactacat gctactttgt actctcacag cacacgttca 180  
cacatactga cagggtagag ggtactgctt actcttaaca atacatcgtg tcacaccaac 240  
taacaatatg cggcatgccc ataattcacg atatatgtct tctaatagatt gcatactcct 300  
tcaaagcata cgatctaate atcgtcatac actccaatcg tgcgatccat caattggaat 360  
gattcacaaa cacaacttct tcacaatata cgaccatate ataategatc atactgcaca 420  
ctgttcacag gcattcacgt ttactgaata gacaaacaac tcacatacaa ctataagtaa 480  
caacatgcat tgaatactaa atgatcacac gcagcagaca n 521

<210> 13559

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13559

tgcttatgtc tctnggcttt ttcttttaaaa ctagtcactt anaaaaaagt tgtgactttt 60  
tgaaaaatat ttagaaacaa gtcacttgaa gattgtgact cttgaaatga tttttcaaat 120  
cagtcactgg tatcgatacc attaatgtga tcgatacaca tcatagatgc actcttattt 180  
tgaatttgaa aattacatgt tagagctctg gtatcgatac aagtattgtg aatcgattac 240  
acaagttaaa tacttttagac tatntaacat aagttataac tcttaaattg atatcttaac 300  
gttcgaacac tggaatcaat acatgatatg gaaatgattc aactttgtaa tcagtttgaa 360  
a 361

<210> 13560

<211> 149

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13560

ttatatatac cattctctca tagaatgcaa agcatggaaa gagaaagact gagtagaaca 60

gactgggana gaggcagtag acccctcana tnngtcttct tttttgcctt ctcagtattc 120  
ctctttaact ctaggtgcta cagatctct 149

<210> 13561  
<211> 174  
<212> DNA  
<213> Glycine max

<400> 13561

tatcttatct cccacagagt aattggatat tctctctctg caaaagttca attaggaagc 60  
ttgtaaaatt aaagtattaa tttgtccaaa ataggtggat ccaacacaaa attcttcaaa 120  
gttctggcta aaatggcatt ggttggtgga gaccaaaaaa aaaggaagaa aaaa 174

<210> 13562  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13562

ctctcaatgt aatgctacta ccctattcag tgtgtactat aagtcattgc tacttctaac 60  
agagtctaga ttcaagttaa ttaatataac ccattcaatg ttaactaatg ttgaatactc 120  
ttctctcttt cttttttctt gggattata cctctgatct ctctgatcgc tctctctctc 180  
tgactctcat tgataaaatt atagatccct catgtattct acttgtcttt aaatagacat 240  
gcaattcagc tgcaacatat actatatgct aaaggactta caaattaagc caaagtcttg 300  
tttgagttct gattattaaa attcgggtga ctttcttcca tcacggatcc tttccactnt 360  
aataaaaaat aaataaagtg gagtgtccag attacatatc ttacaattca tacatatnt 420  
tccaatactt tatatatta 439

<210> 13563  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13563

agcttgata tatgtacttt actactatnt taaaccttat canaggatta aatgggaggt 60

atttatgttg taggagtatc agaacantct tgtttctgca gtgtggcang gcagaatgat 120  
 ggtaatgccc ttgtaaaata aaattatatg ccttttggtt tttaaaggag tttcttctag 180  
 gtggtgcaat gaagcctact acacatggcc agtgggctca ttagccttgt gccatgtgga 240  
 taccctagtt tgtttgtgta tgactntatt cactcttttt taccagttt ggttatTTTT 300  
 accaagtgtc aagatcatgg acatgacang tatagtagca ttctttacac cat 353

<210> 13564  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13564

ctgcatgatt tacaaaatac aaccaggaga agtatattca tatgtgcacg cacacacaca 60  
 tgttgataat agtttctggt gacttattac agtatatagt agatactnta ataaagtggg 120  
 ggaacaaaat atattgtgat gtgatgaatg aagttgattg gctacctaca tagactacaa 180  
 aactaggatg aagttgattg gctacctaca tagacaacaa aactatgtgt catgaccagc 240  
 acaccaacat gtgtttcttc agggggaaaa atcatgaata ggctaattga acagggatca 300  
 cagttgaagt aacatgaaat angtgctttc tgtgtggngg gcttatatga ttgcaactta 360  
 tattaaagggt tggcctaata tataatatnt tnttctgaat ataaaaatat ttttttactg 420  
 gtagttgaat aacttgaaat ttctaatttg agaaatgaat ggatg 465

<210> 13565  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13565

gcgatgcatt gtcttctatt ttntcaatt nntgaacngt nntcgatga tatnnntagc 60  
 gcgatntcat gatcgagacc atttccaatg ctaaaaagggt tatttggtgc gtttggaat 120  
 ttctactga gcccttcggt ttgtcaattn ntggagccat cnntcgatat attacangga 180  
 aactgaaccg gacatttccg tgtataaagt tattggtcat nnttaaattt tcttagaagc 240  
 ttcgatcta aattttgagc gtctcgatat attacgggac tcaatcagac atccgagtca 300

aaagttatTTt tcgTTtgaat ttgatacgag cttccgtatt caatttggag catctctcga 360  
 taaattatga cactctgtcg ggcacccgag taaaaactta ttggcgtag aattttctaa 420  
 gaagtttcat tttcatattg gagcgtctcg atataatagc 460

<210> 13566  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 13566

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 tcgTTtagaat ttggtagcag ctttcgTTTTt caaattggag catctggata tattacagga 120  
 ctctgtcggga catctgagta aaaagtattt gtctctgaa tttgctacga gcatccattt 180  
 tcaatatgga acgtctcgat atattatggg actcaatcga acatccgtgt ataaagtatt 240  
 tctcgattga taatgtcag agcttctgat ctgaattttg agcgtgtaca tatattacga 300  
 gactcaatag aacatccgag taaaaagtta ttgttgTTTTt aatttgctac gaacttacat 360  
 tatgaatgtg cgggtgcctcg atatattacg ggactcaatc ggacatccaa g 411

<210> 13567  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13567

ttcttatgtt ctcaatttca agcatcttga tatattacag gacacaatcg gacatccgag 60  
 taaaaagtta tagtcatttg aatttgctca gagcttctat tttcaatttc gagcgtcacg 120  
 atatattaca agactcaatc agacatccga gtaaaacggt attgctgttt gaattatctc 180  
 anagcttatg ttctcaatnt caagcgtctt gatattattac aggactcaac cggacattcg 240  
 acttaaanag taatgtcgtt agaatctgct acgagcttcc gttttcaatt acgagcgtct 300  
 agatatatta cgggac 316

<210> 13568  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13568

tttactcnat gtccgaagag tcccgtatat atcgagattt ctcaaattga aaatagtagc 60  
 tcctagcaga ttcataccat aataactttt tactcggatg tccgattgtg tcccgtagta 120  
 tatcgtgacg ctcgaaattg aaaacataag gtctgagcaa attcaaacgt caataacttt 180  
 ttactcagat gtccaattga gtcccgtaat atatcgagat gctccaaatt gaaaatagta 240  
 ggtccttcca aattcaaacc ataataacgt tntactcgga tgtctgattg agtcccgtac 300  
 tatatcgaga cgctcgaaat tgaaaaaaga tgctctgagc aaattcaaac gacaataacg 360  
 gtttactcag atgtccgatc cagtgtgtga atatatcg 398

<210> 13569  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13569

tctgcatgct tgcttcttta tgtctagaga tttctagaga gagaaaggct caagttccaa 60  
 agagtgtgag agattntgtt gtgtgaagac ctacagagaa ccgagcttga agaggaagcc 120  
 gtcctgaaag cttgagatga gtttgtgagt gattgtgagg ttctagaggt ggaggagaca 180  
 tcctcactgc tgtgatttct tcaatccttc atctttctct tctctttgtt gaaaggaagc 240  
 ttcccagtta tggagagcta tatectctgt tggttcttcc ttgcatgt 288

<210> 13570  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 13570

gacacataaa tactcagctt ttagttttaga tgatgcagat gatttgtaga tacctctatg 60  
 ctctcctcta atgactatag catcatttct ggtgctaaac tgttgggagt tggaagccat 120  
 cttctcaatt aaatttttgg cttcagtagg agtcatgtct ctaaaggctc caccactggc 180  
 agcatctatc atacttctct ccatattact gagtccttca taaaaatatt ggagaagaag 240  
 ctgctccgaa atctgatggg gagggcaact ggcacataat tttttaaatc tctcccagta 300



ttcgtatagg ctctctccac tgagttgtct aatacttgag atatccttcc tgat 354

<210> 13571  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13571

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 tgggagatta tgccactttt taacgttaag aatgggtccgg tttttttttt tttctaataga 120  
 ataaaaacca gccataattg attaaaatat tataattttg gacctttaaa agggaacctt 180  
 aaaccttttg gttcggtaat cccctcccct tcaagcaaaa atctacataa ctcaatcccc 240  
 aagtattttc tttcccatth ccaatgtttt agctctgata actntggntn tttatatgat 300  
 tcttttgatt tctgggttcag aataaaaaca ttacttatac c 341

<210> 13572  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13572

ccgatgtact agactagctt ttcgaaacnc agctgctaac ttattatggt gcaacttgaa 60  
 ctagagtttt gggtcttttg atagacacga aatggatgga cgcttgagat tcaacctaga 120  
 aatgattagt ttcttttaaaa ggatatgatg ctactcaaaa ttgtgatgat agctaggtga 180  
 tgcaccagta cctgatagat agatccgttc ttgcccatat caggaagctc gccaaagaga 240  
 gaaactcaac tttatcacac ttatctctca agcttaagtt ctctattatg gctngatntc 300  
 ttaattctac tagaatatth cctaaactaa tccattgctt atttccacat aaacccttac 360  
 catatatggc tagagctaaa tataaactgc ccaaactata tgg 403

<210> 13573  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13573

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gggatcctta gaggcacctg cggcatgcaa gctaggcttt tactttcnaa gactganggg 120  
acacatagac tgcgtacata ctacgtcatg cgtgctaact gactttgcac catgaccatt 180  
gtagtcgtca tatatgacta actttgtatt gaaaagttaa taaaatgtat gtctcttcct 240  
caagttatgg gtctaattgt aggtaagtac atatttatat gtncagttta attatatattc 300  
tcagagatac ttcctatata gtgaattaac gtgggtcaac ttcagattca cgtgataaga 360  
tgaagaataa caatgggtgaa gtatctgggtg tctcgcgtag agatgcatat gcgccgtatg 420  
agtcacatcc actaagcgat gcactcagct cgactantgg gttgagagaa tcatgaagag 480  
aatcagaata cg 492

<210> 13574

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13574

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cttaggcact tctctctctt tcgaatttct tangaaaatt gtttccgtga agaaaatcaa 120  
cccaggcgct tctgtacgtt ccgtaacatt tcttgagtga attcgcgaag gtttcaaccg 180  
ttcttcgacg tcttcattcg tcttcacgtt cttcagtcctt aacggtaagt acctcnacta 240  
agctttcaan catctatgac ccgggtggcc acatttggtc atgattttat ctcgttcatt 300  
acttttatcc cctttgcgtc tttagccttat taatcttctc cttaatctaa ataaataa 358

<210> 13575

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13575

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taactgaatn tacaacgttc caattaatgt caaaatggtg taatcgatta cattgtttgg 120

ggaatcgata accaatggtg ttgaatggtg aaatcaaatt taatttgtga agagtcacat 180  
tctttcacat taaaaccttg gtgtatcgaa tacacttaat tgggaaccca ttaccaatga 240  
tagtttctga accaaattca aagatgttac tcttcccata attttcaaag ttttcttgaa 300  
gacatatctt ttccaaatgg ttgtcaaggg tttttcaaag gtatactctt cttatagttt 360  
cttccttgac ttgagagcta taaaacaggg cttgattgca acaaaacttt tctacattct 420  
tagacacaac tttgccactg attctaactt ttgactctct tctcttttgc aaagcctcaa 480  
gtnttgtttc taa 493

<210> 13576  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13576

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ttttcaatat tcctttaagc cattaataaa tattgactan natctaagca cattgttttg 120  
ttgcttagta ttagaatntg atgtaagaat ctaataatga cagaaagaat attagttaaa 180  
agataaaatt actatagtga aagaaataat gggaatcaaa catgaaaann acacgttcaa 240  
cttncatgcc aacaatactg gtcggaaaac accataacga tattttatttg catgatcact 300  
gcaaggaaaa gagaagacgt taattatgaa tcattatata atcaacaatc agaatttatt 360  
tgaatttttag tcatcaacta ctagctcata ttaatatgaa tg 402

<210> 13577  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13577

nccctaattg agcgaatcgn agtttgtaca ncntnnanta ctaagctncc tctctaacat 60  
ctaantnecat catcctagta aacatgacca tgtaatgatc atttggccta ggtccaaaca 120  
gaanaaatta acaagtata tcatgtcctt gcattgggct caaatattac atttaccan 180  
aattggaaca cacacataca cacacaggtt ttacaaatat gcacatacat ttccttaaac 240

atgaaaacac aatgttaatc cgcataccta gtattgggggt catgttaaata gatcttatct 300  
tacttactca tatgcatgtg aacactctac tttgaatagt tacgacacta tgtcaccata 360  
aaaggaatca tgccttgtat aactaccta ctagatgaat cactagtgc atcagngtac 420  
taactttaag atgcctatgc tcggacacat agccatgngt ttactcagct tg 472

<210> 13578  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 13578

acaccacata ttagtaacac cattatattt aatacacgaa aattacatat tatacaaaat 60  
aatacaatac gacatatttg aataataact aaaacctaaa taattaacat tcaaacttat 120  
atacctaaac taaaacaaat attaatatga ccaacaaaaa taacacaaaa tataacactt 180  
accagttgaa aaccaattgg cggaaacacc actaaagctt tgcatacaag atacatacca 240  
caattaatta ataaatacca ttattttata caagaaatta ac 282

<210> 13579  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13579

tttcttatgt ttaangaagt aagatgggng ctcgagatgc atntaaacct tatctcaacc 60  
ggacagcttg atgaagttgg gatgatatac cagttcgggtg ctggtagatg gaagctatat 120  
agaggaagca tgggtcattgc tcaaggtaag aaggaatgct cctggtacat cgtgcaagga 180  
aagatatgca tatggaagat gaatgttgct caagatacaa ccaaagaatt atgacacaag 240  
agatngngtc acatgagtga gaaacgtttg gagtttctaa cataggatca ctttccaaac 300  
ataaa 305

<210> 13580  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13580

tgactcatgg tggaggagat aggaatgaaa ttttgtgttt ttaaactcnc ngnacgaaaa 60  
aagtgtgagt tatctgccga caatattatc taaatatttt ttgtccttca attttatgtc 120  
acttttgttt ttggctctcc aactcataaa ttatttgtct tagtctctca atatttgtgg 180  
tccttcaagt ttatgtcact tttgtntatt cattatgcat gcaaactttt atataatgta 240  
gctntctata catgcataac caacctaact aacaagatta acaaactcta acaaccaaca 300  
actgaattaa ctaactccac gtaactaact acacgtaact aatctgcacg tgtgttatta 360  
tacttggtcg caatagtttc ttcttcctaa catttcctaa cccatcaaan acatcctgtc 420  
ctagaagtgt taagcatatg ctntgtggca catgatat 458

<210> 13581

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13581

tatcttcaat tttaatgttt tatcaganca tgtcaaaaac gcgtatcaaa ttatggagat 60  
cgtggtatgg tattgtaagt gacatccttg gccagagtgg atctgattgt gatggcacta 120  
agcacatgat cacagttgag aatgaanatg cttngnatga atattgcact gtaagtattc 180  
tttaatatgt tgctatttgt tattcaaagt agattggatt tgactttttt ttttccagtc 240  
gcatatatcg gttaaaccgt ttcaattcaa ggtgcttcaa gattgggatg atatagtgga 300  
tttgtgtgct aaagatagag ccaccggtca tggagcttaa actgctatgg atgctgatga 360  
agcgatgagt agagaaacaa atgaagtgg 389

<210> 13582

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13582

tgcatcgacc gatgtcgggt atagacgggc aatttatatc ttgtattata tcngangcng 60  
gctactaggg aatgttcgat cggcgtcatc ggggtgatgct ttntatttta gacctogate 120

ggccatcttt catggacgac atcggtatc attctctttt cgatcagtat cggagaataa 180  
tggttttctg gcatagtaaa tgagaacatg ccggtgtcgg ccgaaacaca actntgggtg 240  
agctctcacg aaaaaaccta tccggcctac ttgaaaatt ttatgggcga cgcccaacta 300  
cataacttcc ttactgcaa agaaatattg ttggccatcg ttagaacaaa attgcgcaat 360  
gtggctgaaa atatcatcac 380

<210> 13583  
<211> 226  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13583

aatctatgtc ttatatgttt cccattctct tttcttctaa tttacctaa gtaatttggt 60  
cttttataaa atatctgttt tcaaaatctg ctctattggt aatctatctt tagatgatac 120  
tttggttgta tgaaaaaggc ttaaatttaa aatctaatac attctattct tgtgaatctg 180  
ccttacaaaa atccatagaa acaganatac aatttatcat ttatgc 226

<210> 13584  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13584

cccctcta atctgagcca tcatccacag ggatcaacag tatctgaaaa gctaaccctt 60  
cngataaatg gtcctcaat ccttggtcct gaaganattc attccagacc accatttcat 120  
ggtaggggtc cattattgga aaacccgcat gcagatattc attgaagcca tagatctaaa 180  
tatttgggaa gcaatagaat tatgaccaca cataccact atagtagatg taagcacaag 240  
cactacaacc cataaaccta gagataagt gacagaagaa gatangagaa naatccaata 300  
cgatctcaca gccaaagaaca ttatcacttc 330

<210> 13585  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13585

tttctntggt tcaggnattc atgtnnccatc taggcctttt gagtatgtcc attttgattt 60  
atggngacca tctagaggaa aaactcatgg tggaagctca tactntctca ccatcataga 120  
tgattttctcc agaagagtat gattgtatgt tttgaaaaat aagtcagaat cttttcaaaa 180  
attcagagaa tggcatactc ttattggaaa tcaacttggg acaaaattaa aagttttaag 240  
gactgacaat ggcttggagt ttgtttcaga gcagttcaat gagtnttgca ggaaaatagg 300  
catcanaagg cacaaaacag tccctcacac accacaacag aa 342

<210> 13586  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13586

tcattagccc tgacanagag ataaggaaat aagttanaat atatcattta tactcaaaag 60  
aaaactattt ttaaccacaca atgcacggtt catgtgataa aaaaataaaa tgaaatgtca 120  
agtttcattg ttaaccctaa cataaccaa aaaaatccat ttaatgaaat acacatcaaa 180  
gggagacggt caaacatatt aatgagaaag gcatangaag tatgtgtggc acttagacac 240  
cctttcctat ttttatgaaa gttgaatgct tgaaaaactg cataaacaat ctttgaaact 300  
tggtttgtaa tgtttatctg gttcacatat ttgatcagc ttgatgaaat gaaagctaca 360  
tgttttttta aggttgattn ttcatataac aatntcatat tattttttc 408

<210> 13587  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13587

ttcttttctt ataaattgag tagcacatga tttttctcag aacatgttta ccaaagagtt 60  
tttactctct ggtaatcgat taccagtagc aaaatathtt tgaaaaagtt ttcaaattga 120  
atttacaact ttccaattaa tttcaaaaag ctgtaatcga ttacaatggt attgtaatcg 180  
attaccagtg cttttgaacg ttgaaattca aattaaaatg tgaagagtca catcctttta 240

cataaaagct ttgtgtaatc gattacactg atttggtaat cgattaccag tgtttgtttc 300  
 tgaataaatc anaagatgta actcttcaaa aggtttttga ctntttcaaa tnggttttaa 360  
 gtttttctaa aagttataac tcttctaaat ggtcttct 398

<210> 13588  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13588

ggtgactcta ggcaatttct ttcaaactag tcacttaaaa agttgtgact tttgaaagaa 60  
 tcttcagaaa caagtcactt gaagaattat gacttttggga aatgtatttt tcgaaatcag 120  
 tcactggtaa tcgattacca ttaaagttta atcaattaca catcaacaga tgtgactctt 180  
 cattttgaat tttgaaaatt agaacgttta gaaacactgg taatcgatta caagtactgt 240  
 gtaatcgatt acacaagtta aaaatgttta aacacaagtt gtaactcttg aaatttgaaa 300  
 tcttaacggt ntaaaacact ggtaatcgat tagtaccttt tggtaatcga ttaccagaga 360  
 gtaaaactct ntggtaaaga aatttttgaa aacttcttgt gctactcaat gttttggaaa 420  
 actntntttg tacttatctt gattgagtct tcccttgttt cttgaatctt ga 472

<210> 13589  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <400> 13589

ttcttgcctc ttagaggtcc aggaaggaca aggtggccga aggaactagt tccgccccaa 60  
 agtacgacag tcaccgcttt atgagcgttg tacaccagct gcgcttcgaa gccattaaag 120  
 gatggtcatt tctccgggag cgacgcgttc agctcaagga cgacgagtat actgatttcc 180  
 aggaagaaaa agggcgccgg cgggtgggcac cactgggttac tcccatggcc aagtttgatc 240  
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgagatcctg ggtaggggt cagtgga 327

<210> 13590



<211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13590

tacatgnncc caactctnnc ttgaataggc atttgtantt ggttggttat cnttggttag 60  
 gtgccattct tagtacannt ttgatatatg tannttgcat catgccatca tnncatgggt 120  
 tgtnttttga aaaannagtt tctanagtta agaannaaat ttcttcagaa ggggcagaaa 180  
 ctctcttatt ttgatncgat tacccaacct tattgttaatt gatcacaaca aagttgtctt 240  
 aagcttatag agttgagtct tgtatcgggt taatcgatta caactatctc ataatcgatt 300  
 acattgttgt ttgagagaat gactgattta ttcaggagtc ttggctttaa tngattacca 360  
 agatcgatta ctttaaggcat ctaatc 386

<210> 13591  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13591

tnctttatat atatatatat atatatatat atatagatat atatatatat atatatatat 60  
 atatatatat attccttttg cggatcaaaa tatataaaaa atattgtgag cctcgtggac 120  
 gagattctag agggtgattt gaagaagaag atcattgtca acagttgtac catttgttgc 180  
 tagaaaaatg agtttctgga ctcaccctgg tcaactgaaac acacttggct ttatctctgt 240  
 cagacaggct tataataagt ccatgtttca ttgtcaaata gatatgacgc acatgagcac 300  
 atcttcacag ttgtattatc caciaagata tcccacatga atgatgtcct tttatatacc 360  
 atgattttat tacatgtggt caagcg 386

<210> 13592  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13592

ctttcanatg ggtaaaaggt tcacattcac tttcttctac attatatnca aacttgtcca 60

aataaataat aaagttatct cgacacanag taggtcatct aagtttcata caattaatat 120  
agaacctata tctaatagtc acatcctatc agagcgtggt gttcccgtgt cctctagcat 180  
gaggttcttc atagtcatcc acctattcat ctgctcccc gaacacaaag ttcaatatca 240  
tcacaggatc caaacacaaa tagcaaaccg ggagtgagtt atcacatttc taactactag 300  
agagaaacaa cacaacatat agtagccaaa tacaatttac ttagcatatc tcacattatt 360  
tcatcactgt gccattcatc aatcacactt ttcatccatc aatcacacct ttcaatcatc 420  
aatacaatac aca 433

<210> 13593  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13593

agctntntgt attntgtaga gttgaatatt aggctatttt tcanatggag gacaacggaa 60  
cactgatggc caagaaaata accatttgct ggaaagatgt tggcactata gtttattaag 120  
cagaattgta tcaagaaaag ccacaagagt ttgtatgctc tcatagttga atttgaaaat 180  
aatgggtctaa cagttagaac ttagaaggat agtaaagaga tgttttgcac ttgaaacatt 240  
tattttctcct tttatagact acaaaaatgt acaattgatc tatcactctc ccgagtctaa 300  
cgcaatcaag tctcttcgga acctcaagaa ccgctactac caacttatga tctttagata 360  
taccaattat ttaaggccat atattgatat aattatttgt tgtgtaaaaa tc 412

<210> 13594  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13594

agctttnttc tcatatcttt caacttatcc catgggtcga actcaacggt ctttactacc 60  
accacacct ntacctcaat gtggcaaacc atgcncctac cgctgcatgc caccaattaa 120  
ccccatcttc ttcatgttg cactaaacca caccatccac gacgccttcc gcggccatcg 180  
tgtcaaattg acacaccaca tggagatgcg gttcccttcc gtcacccgtc caccatcaaa 240

accctaacc tgcagccaga actcaagaaa ctaatttgaa ccacaagact acaagatatg 300  
 tntgaaaacc atcgaagcac tgtagatct gagatgccat taacatgcac caagcaagac 360  
 tacgagatgt gtttgtgtgg aagaaagatg aagatngaga aagagagaaa gaga 414

<210> 13595  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13595

ngattataaa ttttgcntgc agacancttg atactcagcc ttctcgacta atatccaccc 60  
 acctgtctcc ttctggttta atttttctta gaatcttctt atcccctatg gtaccagtgg 120  
 tcctaaattt aagaaggatt ataattta atttcttctt aaaatattaa ggccttgga 180  
 ccatatggcc ttaatcttct tgataattta aggaattccg gccacttatt cttagggagc 240  
 caattccatt aatttggaat tattctta atttcttctt ccatattcct atttaattac catatttact 300  
 gggataaaga tataattcca tcaagataaa tataactttc taaatcacta atacacgatt 360  
 tgatatttga tatatacata catcctctct catcttacac taacactcat atgatgtgta 420  
 ttgggggtgac tngagcatgt gtctatagac tgc 453

<210> 13596  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13596

ctctttacaa gtaaaaacat tggtctactt caagacccct tgactactca catagaacta 60  
 gtgggtccta taaactatga gtttgggtgg tattactatg tctaattata gtagatgata 120  
 ctcaagttca tatggacttt gatntgcaaa ataaaaatga agccttgatg ctttcacaaa 180  
 ctgccaagtt attcaaatga aaagtctcac attgttctct tagagtgatg tgaagtgaat 240  
 tcaaatgagt gtttgaaagt tt 262

<210> 13597  
 <211> 319

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13597

agctacttct tctaagttac catgnagaaa agccgnnngt acatccagtt gatgtaattc 60  
caagttaaaa taagcaacta atgccattat gatgcgaaag gaatctttca tggatacagg 120  
agataagggt tctttgtagt caactctatc ccttcgagcg aatcctttgg caccaatcat 180  
gtcttggtgc tctcaatggt acctaataaa tcttctctgg tatcgaaaat acattttacat 240  
acaatacgct ttatcccat aggacatagc actagatccc atactgtatt atttcccata 300  
gattccatat catctttca 319

<210> 13598  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13598

gggcnnnccg atttactgct gagtagaanc caactaacia aacgtgcaat ggtacggcac 60  
acttttcatt tgacactcta aaacttgga gttctactgg tgatgggtag agtagatgat 120  
ctcattagtg attcatggaa tgggtctact atgatacaat aataaaatat actctgaggg 180  
gcatgttgta ggaaatctta tgactctttt gcattattgt gttagataag gagagtggaa 240  
tctatttacc atataaaaag gatgtatctg aaaatgatcc gatatacaaaa gttctatact 300  
ccttgctaac aaagatctat ttcaaaccat ttctactgaa ttgga 345

<210> 13599  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 13599

agcttggtatt ctgaattgag tatggctcac acattgcatg tctgatatgc cttttagagg 60  
cttgaaaagt gcgagaaaat gagctgtgtt ttctggaaaa cgcatgaac tcgctaagcg 120  
agaatgttgc gctaagtgag ttcataata ctcattgtat ataagcttta tctgaagaac 180  
tcgctaagct cgctgactgt gctaagcgag ttcatacttt gaggatgaac attcatcctc 240

ttgctgaact acctgtggct aagcgaggct gaatcgctaa gcccgggtaa ctttaaccatt 300  
 tttttttgtg atagccacac gctaagttga gcattctgga gccaaagcgca attgggttgcg 360  
 gcatccgctg agctaagcga gcttcactcg ctaagctccc atgac 405

<210> 13600  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13600

agcnnaaaag cggatggaat gacctttgca nancnacact tagacactca gccttagtca 60  
 accagaatnt ccccaaaatg tcaaggaatg ggggtgtggaa naaccatatc ataactttct 120  
 gngatgggtt aataaatcca atctttccag atgagaatgc ttcaaaacca ttaaaaaacc 180  
 taccagatgg ccctagaaga attgtattac cttgccaggg atccaactta accaggtatt 240  
 ctttttactt aaagccataa gatgacaaaa gtccattgca gagcaacgag gtcaccttaa 300  
 ggggtgaatc tcaacacttc gcaagtgtga atgacgcaa tccttgagtt gcttccatcc 360  
 cttactttgg gttctttgat gacattttga gcttaactat gtcaaattta ctatatgtgt 420  
 tctcaaagt aaatggggtg acagcaacat tgggtgtgcac cccgatgata tangattcac 480  
 gttggtagac ctaaagaact tgggtaccac aatgaccctt tcatcatggc g 531

<210> 13601  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 13601

tatcttctta tccaaggctc atcttggtgg tgaagctcct tcttacatgg cttattccct 60  
 agtggatggc gcctcctctc acctcttctc ctttgttttc cgtgcatct ccatgggtgga 120  
 aaatcaccat taaaggatct cattgaagct caaagatcca gcctccatag aagccccaca 180  
 agctaacttc catcacttat tgtagtaatt ctgactttcc gcagcctcat atacctcttc 240  
 cattcccacc tagagccatt ccagaccaat tgatggatga cgctaccgaa gatatctcgg 300  
 agaccttcat gaaagtccag gtgaacatac ccttgctaga tgcatagggc agaatgtatc 360

agcattgata ggcataatg tatctcacat tcttg

395

<210> 13602

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13602

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ccttaataga atgacatgaa tntgtttcct tanaaaaata tctatagcgc catgtaacta 120  
atatgaaagt cacaagaggt gaagaatagt aaagagaagg ttaaaaagtg gttgtggaaa 180  
ctgaggctct tcattttactt ttgtaatggc caaagatggg atgtaaaagt tttgattcat 240  
cgctctcgat ccaacctcct gtttgcacca taattgttga acataatgat aacaatgccc 300  
aaccaaaaga atcactgcgt gtgtgtgttg gacatacaat tgaaacaact tatccacac 360  
caaaccaaag gcgctgtcca tctgatcaca tgaccatgcg ccactattta acgtaccttg 420  
ttattcttgt gatc 434

<210> 13603

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13603

atcttgttct taaaaaccta tttagttcct atgatgttca agttattagt acttgttatc 60  
aattcccata catctttcct ttaaaattga ttaaactcat catgccataa cataatccaa 120  
actcatcttt aatgcatcat caaaattaag ggtcaactna agacacaaaa ccatatgttc 180  
acaaaacaaa ctaaagagtg ctagtagtac tctctttcat ataccaatga tatgcatata 240  
tgattctagg ggtaccatct ttggaagact gtgatggggc cttttgaatt attgtcacca 300  
catttatnt aggaatgttc attgagacct atatatctat caaaatcctt cttctttggg 360

<210> 13604

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 13604

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tctaaggagg tgagcttagt tatgagaggg gtgtgtgtat ctaagctcta tcttctcaag   60
gaagttttct caaagaagct tctcaaggaa gttttctcaa gaaagcttct caaggaagct  120
acctagtcta taaatagaag catgtgtaac acttgtaact ctgatgaatg agagtcttgt  180
gagacacaac tcanagttct acttctctcc ctttttcttc cttcaatttc gtgtccccc  240
ctctctcttt ctctcccttt ttcttttctc ccattgaagc atcctctcta agcttcttat  300
ccaaagctca tcttggtggt gaagctcctt ctccatggc ttattccata atggatggcg  360
cctcctctca cctctnttcc attntcttcc gctgcatctc catggtggaa aatcacca   418
```

<210> 13605  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13605

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gtggaggttg ctggagcata aacaagtgga aaagagaaac aatataaagc anagcagtga  120
atgatggttt ggtcgtcaga gtacagagca cgacacaaga actagtggag caaacaagtc  180
agggagcatg acaaatcaca gaactaatga tggaacacaa cttgagaatg acaaaggctc  240
attgcactgg tttgggactc cgggcaagcg attagggact gaaataaaat gagaacagat  300
tgcangacta accagatggn gtgtcacagg tttatttttc caaaacccaa ctgccaatc  360
anaatcattg gttcaccctt                                     380
```

<210> 13606  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13606

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gtacctcatt gagtgcaact agtaccatgg caaagataaa gtgcggtttt gggagcagac  120
ccactccttt tcaattgaag ttctgcatat ggtatcttgt gctgctcatt tttgtgcctt  180
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ggcatgactn taagtancta tgatcaaaaa tgattataga ctnaaaaaaa ataaaattat 240  
gataaactct ctaccggagt gaccccaacc agatatttat actccttggt tttttatata 300  
tttgttttat aa 312

<210> 13607  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13607

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tccttcggat tttactgttt ttttcttata tgtaaataa aataatataa ggctatggct 120  
tatggacatg gtcattttta cccctaacaa tcttagaagt aagtatagac catgttttta 180  
cgcgataccc ttataccatt tatatttaca tattagcaaa aagaaatctg gatacaaacc 240  
atcaatcttc ttccactggg agcaatcagc cggatgacga accattccat cagaaatcct 300  
tccatttgca tgccatgta ggtgttttgc gtcgtcctcg ttagcaaana gacgcttaaa 360  
ccttggaatg attggaagat accac 385

<210> 13608  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13608

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agctntcctc gtacctcaat cagcaatact gcaacagaag acgtactatt attattatca 120  
tcaataanac atgaacaccc aaggaaactt agcatacacc aagtttacgt acagtgtatg 180  
tagggttttc ttcgagccac acttcgtaga acagtgtang gggttctgtg gggtcgatcg 240  
aagggtttcc ggaggtattg agaacaatgt gggacaatgt ggggtgctgac ggagcgggtt 300  
ccggcgatn tcaggtggga ggagaaagag aagaaccgat tcaagaatga ngagaaagag 360  
aagaaggagg gcaaggtttt cgagcgcgcg gggttatgaaa tgtcatgttt taacttataa 420  
acataacaaa at 432



<210> 13609  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13609

tgctttttgt tgtcatagtg tgacggggct tgaataaaaa tattggggga aggggtcaaa 60  
 aataagattt gaataaaaaa aatactccta atttttttat ttaataattt catttaaatt 120  
 ttctaacttt ttttctagtt tgaaaaaaaa gaaaagaaaa aatattaaaa taatttaatt 180  
 atcattcaat aacttttttt accaaaatca tcagcctatc atactaaaac tagacaaaaa 240  
 aaattgagaa aaagttaaag aatctttagt taaagttgta caaaaaacca aagaanaaga 300  
 atatatatga agaggtttga tctattcagt aaaggatagc acagganaat caaagaatct 360  
 attgaataat gggcaagtag agaacta 387

<210> 13610  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13610

ctcagcttgt atttgtntat ttaatccctg gaacatactc cattgttata atctgcattg 60  
 gaaacataga taatagataa ataagttcag acataaaatg gaaaatatgt gcattactac 120  
 atttggcata ataagagcca tgaaggttaa acctgtggtg tgggtataatc ccagtagatt 180  
 gtaggaactt tcacataatc catgtttctta aagttacttg caaacaattc tgcattagca 240  
 gcctccttgg tgtaatcaat ctctgaaaa ttattaatcc atgttgcagt aacaggatcg 300  
 gagaatgtta tttgctgaga acacgtgcat acatcatacc aaaacaacag attcacaact 360  
 caagcaggaa ctgaaacagg aatgaccact cttatgtgtg atgatcttaa gcccatattt 420  
 gtattgtgta gatgggtttc ttacatcaag ttttctata cataaac 467

<210> 13611  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13611

tgcttggttc taggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60  
 cgtcgaagaa cggttcanac ctttgcgaga ttcctcacgg anaacgttac ggaaacgttt 120  
 cggaagcgct tcggcttaga ttttcttcac ggaaacgaat tttccaagca aattcgaaag 180  
 agagagaagt gcctaagggg ctgggatcct tttccacttc acttcctccc ctatttatag 240  
 caaaaataggg gagatgcttg ccgcccagct cgcccaggcg agctcagctc gcccaggcga 300  
 gc 302

<210> 13612  
 <211> 150  
 <212> DNA  
 <213> Glycine max

<400> 13612

atatgtgcga gtgtccacat ggatgtgtgc atggatcaat tttgcatgaa gacctaata 60  
 tcattatcat atgcgtgtca tggaagagat tagggcattc ccgtatacct gagcgcaactt 120  
 actatacaaa tgttccaaca tacatgatgg 150

<210> 13613  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13613

tagcttgcac anatatatat tnggggtgggc ttagagacgt gtacttcaac cttaaaagca 60  
 tgcttctaaa gtcttagaca aaaccgaaac ttgggtgtct ctttttaaaaa ttgatcttct 120  
 acctcanata ataataaata aaactattaa catgatggag agaagataat aatatgaaat 180  
 atgtagaaat atcatcaatc gatatcatgc tgcaaaacac agaaccacca cgttttgatt 240  
 ttaatatgta ataaagtaac atatatatgc acattcaatt aact 284

<210> 13614  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13614

tatnccaaat aattttcatt gagtttattg tgtcacctgt tatcggacca tctgcaaattg 60  
tctagttttg caaacttacg cacaagatat cacaatcctc agtatgaggg gtgtgcgctg 120  
gaatcccaca ttactagta ttatggccac aataatgtgt atataactgg aggcaaccca 180  
tatttggggg tgagtttggc ccaaactcaa aattgtaaaa gaaattatta atgaaaatga 240  
tagatagaca atcttttagct 260

<210> 13615  
<211> 340  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13615

agcataacgt tttgtctctc ttcaatgtta gtatnatggc ttgcctttct tgttcccatg 60  
cagatcttct ccatataaat aacttgcggt caatgtgtgt tgtctttccc atccacacgt 120  
ctccattctc caacatatgt aatatcaaca attatctcct taaatatttt gaaatatctc 180  
ttctaatacca ggaaaacaaa tgtgtgtata gctgtagcaa ttgtcataac tttgttgcta 240  
caacaatgac ccccatgaca caaagattgt accaaaagat catagattcg tgaggggtgtt 300  
gtctgcattc aaatttataa catgaccagt gcatgggttag 340

<210> 13616  
<211> 202  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13616

gcatcttcag tgtttctttt ggaatattat atgtaccacc accataatct gcttgcattg 60  
ggacaaaatt aaaactggaa tcattcanta agtgttgcatt tattggaatc acttttagatg 120  
cgtggatctt ttatgggcaa taatgatgat gatgatgatg atacatattt cctttgagat 180  
aacaatcttc taaatatgct ca 202

<210> 13617

<211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13617

agcttatatt ctccaatgta cagattataa agcaagttcc acatgatata tgcattgaaaa 60  
 acaaagataa cagaaattaa aattgggttt cctcccagga agcgcttctt taacgtcatt 120  
 agctngacac atttacctga atgggtgata tcaaataaac agtggttatgt gccctttcan 180  
 attcttcacc atgggtacaat tttaacctct agccatttac taccatggt ctgtcaggat 240  
 tctgagattg tgggtcatat agctctattg caccataaga atcaaatttc ttgataacaa 300  
 aggggtccaga ccatntggac ttcaacttac caagaaataa tttcaatctt gaattaaaat 360  
 gtagtacctg ttgtcccggg ttgaagtctt tcttcaacaa atttttgtca tg 412

<210> 13618  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13618

aggggtggcg gaannnagtt gatgctgtac atcgagacct gacnagcacc gngatctctt 60  
 aagcacctga ggcattgcagc tgatgtgttg gttcaagttt caaacactag agntcattag 120  
 actccacgaa taagtgttta gcgctgtcag ttatattgac gaaagaactt gacgattgag 180  
 taacctagct ctgcaagtac aagttcattg atcaactatt gtgaccattc ttgagtatag 240  
 aaacttttgt caacattatg gttggaagcc agatgggtcg gacaagatct tgggtctatct 300  
 caggaagata aagcatgcca atggctaaag actcttgacc aagtggctaa gatcttgtct 360  
 atcaaactgt aatgaccctc agtttgagaa ctggcgaccc aat 403

<210> 13619  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13619

aggggaacggt ggaatatagc tcagctctga cnetgaanta ccnncanac cnnncggagg 60

ggaaggaggt ttaaatttta cnnccccaag ggggggggga tggagagaac acccccaacc 120  
 ccgaagaaca ccacgacggc agaccaacgc catcccggcg gacaccggag tactcgagag 180  
 gacctaaaaa caacaactta gagaataatc aagatgaaca gaagggccga agcgcggtga 240  
 gcgtaaaaaa ggagaggtac gcgcggaaag aagcgagcag cgaccgaagc gcaacgagca 300  
 caaaagaagg gcgacagggg aagaggcata gcacgaacca aaaagccggc ggcggag 357

<210> 13620  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13620

agcggatgtt tcttgtttat gttnncttac naannngnngg gatttgagta ttgtattaat 60  
 tncttttata ataaactcat ccctcgcaat ttttgtaccg tgtggttggt acctgtgatg 120  
 atcgcgaaact cttgttcatg ggagcagaat gacagcagta gagtatgata tgtgagattc 180  
 ttttgtggag ccaccgagcc gacatgatga cgttgagatt attttatgag agagtttgtgt 240  
 tttgttaatc aactcctcca tagctagtgc cataattctt ttgttgaatc gaggatgtan 300  
 atcacaattc taattatatg tatgaacana tttattctcc attatgtgaa tgatgtgtac 360  
 tgagttacta tacctatata tatatatata tatatatata gtaaattact t 411

<210> 13621  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13621

agagaccatc acaagcacat agcagggctt tgaaatttgg ttagctgctn gctcaaggctc 60  
 caaaagaaac ttgtctcagc gtttatgcga gacagagacc aacatgttag ccatcgtcag 120  
 caagtaccaa gaagagctaa atctagccac ggcccacgag cataaagtgg cgggagagta 180  
 tgcccagagt tacgcataaa aggaggctag aggaagggtga tcgactcatt acatctagag 240  
 gcaacaatgt ggatggaccg atttgctctt actttgaacg agagtcaaga acttgcoctga 300  
 tttctagcca aggccaaagc aatggcggac acctactctg tccccgatga gatccgagga 360

cttctaagct attggcacca tatgatagac ttaatggccc atat

404

<210> 13622  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 13622

tgtgctagct gctctcacca ctatatttct aagcaactcc ttcttcaata tttctatgag 60  
ggacttagca acatggagag gagtatgatt gatgctgcc aatggggagc acttggtgat 120  
atgacgctg ctgaggctac gaatctgatt gagaatatgg cttccaactc ccaacaattc 180  
agtgcacgaa atagtgtat tgatcttaga ggagtccatg aaatggccac agattgatct 240  
tcatctactg aaaataaaaa gcttgaatga taacttgatg ccttgggtcaa cctggtaact 300  
cagcgtgcc tgaatcagaa atctacacct 330

<210> 13623  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13623

ttctngactt tcaacccttc ttaaagtccc cattgctcat caatttcttg ccttgtgcta 60  
gtgataacaa gttcagcagc atctagggaa agctcttctg cttctattct cctcattatc 120  
ttatatgttg aattgatatc ctcttctgat tgacgccctt gcttaagaag ctgttctagc 180  
ttgtttcttc caagtgaatg accagtgagc accattggca cattcaaggc acctgaaaga 240  
agagcagcac tatctccagc atcagcataa tgtccatgaa taacgtgtgg ccacactggt 300  
ttccccccgc taacttggtc acccaatact tatgacatat ngagaatgtg agctaaagcc 360  
ccatctacaa attcttgaat atggggccaa agaagttctt tctgtagata 410

<210> 13624  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13624

ttcttgcttt ctagctcgcc caggcgagct aggttgcttc ctccagaagg cgggtgtcttc 60  
 tggagaactt cctagaaggc ccaagtgggc ctggttgcta ttgacacccc ctgtttacta 120  
 aatacacccc ttgcctttat ttgttgattc tttttccgta acattacgaa actntacgaa 180  
 tttcgtaacg atacttgttt tctttccgta atgttacgaa accttacgga ttacgcaatc 240  
 atcccttctt tggcttccag aatgtcacag aactttacga attgtgcatt tacacttctt 300  
 cttgactttc gacatgtcac gaaaattcac ggggtgtgca accatgcttt cttt 354

<210> 13625  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13625

acacaagaca ctcagctgaa gtgtgtccac accattgtca tagaattttt ggtatgtgtt 60  
 actatatggg gatcatttct tccccgtca ttggagtgcc acttgagctc caggctcttc 120  
 ctctttgggc gtattcttta aagattcgtg ccccttttnc acatgctctg tagttgcttc 180  
 ctatccagaa ccatatcaaa attgtactga tactgcctaa cgaaagcaac cattaggtcc 240  
 ttccaagatt ggactcggga aggctgccag ttagtgtacc aagtagcagc tactctcagt 300  
 agactttctt ggaagaagtg tatcaacagt tctcatctt ttgcgtatgc cctatctgt 360  
 caacaacaca tctttagatg gttcttgggg caagtagtcc ccttgtactt gtcaaagtcc 420  
 ggcaccttga actcgggaat gaccatg 447

<210> 13626  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13626

ggcgtgcttt cttctctttt tccctctttc caancgcgct agcagcgggt tagctcctgg 60  
 aatgtacatc tctgtaagct tcttcagata cccaattgct ccgtatgaaa tcatcagtta 120  
 cttacatttc ttacttgagg aaagtgatcc aaggcaagaa actgcatact tttttgcagt 180  
 gttctggggg cttggatcaa gcaactggac catatttggc acacttttat cattcttctt 240

aacctctctc cgattctggg acagaacccat tacgcttgaa ttcgcttgag cagcgacctc 300  
tctagcatta tttgctgtat ccttaagcat ctatataata taagggatgc caccggctac 360  
accaactatc tttttcatct ccattgagct gcaaact 399

<210> 13627  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 13627

tagcagcaca ttttaatacat tctttatttg gtttttttaa cagctttatt tgacacttgt 60  
taagactcat aacatgcatg gtgcgagttt cacttctttc ttaagttatt aagtgtacca 120  
ctcattgttt ttctgaattc atggcaaagt tctaccaata acaaaaaatg ttatgaaaag 180  
aatttggtgt aaaatttggt aggaatctc 209

<210> 13628  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13628

tttctntact gtanatntta ttaatgaccc actaacctag aattaaaata acttaatgcc 60  
attaacctan ggaattaaaa caaacttaat ggctgagtggt aactgaaatt gttggcaacc 120  
aaaagtcacc cccaacagcc aacaagtcag ccaccatttg gtctcccaa aggctgatgc 180  
ctaagttgcc aattgggccc ttattacaac ttgaactaaa gcccttttag ttgattaacc 240  
caaaacatat ttttggtcag ccaactttac aaggattgng ccattattta taaaactaa 300  
acactctaac attgaaataa agtgggtgtca tttagtcctc catttgngcc atgatacaac 360  
tcacaacctt ggacttttct tcttgaaact tgggcttgta ttcaaataat a 411

<210> 13629  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 13629



caattcaaat ggtcataacg ttctactctg atgtcttatt ctacgcata atatatcgag 60  
acgctcgaaa ttgaacaatg gaagctcttg agcaattcca atggtcataa cttttaactc 120  
ggaggtccga ttcaggcgca taatatgtcg agacgttcga aatagaacaa tgctagctct 180  
tgagcaattc aaattgtcat aactgttcac tcggagggtca gattcacgca cataatatat 240  
cgagacgctc gaaattgaac aatggaagct cttgagcaat tcggatgggtc ataactatct 300  
cactcggacg tgcgattaag gcgcataata tatcgcgacg ctcgaaattg aacaatggat 360  
gctcttgaac aatacagatg gtcctaactt ttactcogga tgtaccgttc acgcacataa 420  
tagatcga 428

<210> 13630  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 13630  
tgccgttcct acatggccaa atttcccacc aactacacaa tgtcattact cagcaaatat 60  
ctacccttct tattaccacc accctatcac catgaacacc caatcatcca caaagggaca 120  
ccctaaagta gccataatgc cggctgccaa catccaatgc caacaccacc cttaataaac 180  
caaagcacca ccaaggaagc attgtctagc agagaacctt taaattcacc tcaattcggg 240  
gtcgttccta acttactgca tatctactcg ataatgcatg gtaccatacc cta 293

<210> 13631  
<211> 159  
<212> DNA  
<213> Glycine max

<400> 13631  
ccatgtatcc aaagcccgtg ctaaagcata caactcctta tcataagttg aatagttcag 60  
ggtaagacca cttaactttt cactaaaata agcaattgga tggccttctt gcatcaacac 120  
agccccaatc ccaacatttg aagcatcaca cttaatttc 159

<210> 13632  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13632

tctgcatgct agcttattct aaggacatat gcaattactg taaagagtcg ggtcattgga 60  
agtgagactg tccaaagaaa gcaaagaaag attatgtagt tgctcttggt taaaatgact 120  
cctcatcgaa aagcgatttg gttttgggtg ttggtgaaca actacaacaa catTTTtgaac 180  
aatgagtact ggactcangt tgTtcttate atgtgtccac acagacaatt atttTtgaca 240  
tatgagaaga aattgatgga atgtctcat cctctTTTT gnggggtggc gctaagcgcc 300  
acatggcagc ttaatgcctc aactatTTTT ttgctttgct ttgctaacat tatncttact 360  
aatcatgttc ttgttatctt a 381

<210> 13633  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13633

tggaagtgac ttanagcana naagaagggt tctgctattc gttgacagat tggatgcaga 60  
acccgattgt ttcgggtgta gaaatttatg aaaaagctcc aattntgcag gagaagggtg 120  
aatgttgatg gtggTTTTgt cacgggtttt ttaatcatgt ggcgagcttg ggagatgctg 180  
gtagattgta gaatgtactg aaatgtggct acggacaaaa attatcagaa cagaacacaa 240  
cagtcttggt tttgttttta atttattcat gtagagaagt tttattatgg gagtagaatt 300  
gatgctggtg gattgggtgta aggagctgtc tcgttaaagt gcaggacttt gttatgggtt 360  
gaagcatatg gtagtatcta aagta 385

<210> 13634  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13634

atgcaagctc gtttatttga ttaaataatt ctcttttatg gtaaacatta taaaaatttt 60  
caatatacgt aatacgttaa atatatagca taaaccaaag agtcacccta attccatgaa 120  
cacatacaaa tgcaagatag tggacctaga tgatttatca aaggggtata ttagaagcat 180

gtgtaagtaa ctatgtacaa gaaatTTTTCT taaaatgcaa aacatgtatc atagtaagat 240  
gatgtatcaa agcataatat gtatattaga gcaaaaagat tgacatgaat gaaaatgcat 300  
canatgtata aaccaattat aacaagaacc aatTTTTTCC atactattnt tttgtcatca 360  
aactaaaagg aacgagtntc atcattgtta aaataaacia aa 402

<210> 13635  
<211> 508  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13635

agggcaanna agcggctttt ggtgaggcta tnactacgta cacctgagca attacccggn 60  
gatcctctag attctatcta gacgcattca agccatacta tcatgcttac tccacaagct 120  
gactcgnggc ttctttgaga agctgtctca agaagcttct ttgagaagat agatccttat 180  
ctattcacac ccctctatta actaaattaa cctccttaaa aataattacg gatgaaaata 240  
acgcaacaaa taatcaaaca tcaaacataa ttactaataa tatatatata tatatatata 300  
tatatatata tatatatata tatatatata tatatatata tatatatatc aggggtgttac 360  
agtaattgaa ggcattgtat ttggccacac aatctttgtt cgtggcacac aggttgacac 420  
agccaatctg gaagtcattt aaaaatcgcc tccaccaaca caatgtcaaa ggcattataa 480  
gctctcaaga cataatgtgt tatatacn 508

<210> 13636  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13636

tcagacctga acagtaacag tctcatagta agcttttagaa aatatattca atctattgaa 60  
caaaatccac tgatttgaat ggctaagtaa aataagtcta atagtaattg gttntactac 120  
tgagaaaaag gtttatgaan aatcnaaccc ttggacttga ttcaatccag tggcaactag 180  
aggaagctta tacttattta ttggaacat ttcatTTTTT tcatcctaaa taccactgg 240  
ccttccaatt agatgaaaga ggtactagtt tccaagtatg attcttcatc aatgcttcac 300

aatctagtgg catagatgaa caaccagttg gataagtaag gcatgtttca cat 353

<210> 13637  
<211> 496  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13637

aggggnacnn cccgcgaggg ggtgaagcat gacgttcgat agcaanacn ctcaagctga 60  
ggatatgacg gacccatcac atgtggaact aggaggttgt cggttaatgt tgcacaccag 120  
gttttcaaca tccacaatgc gcgcataaac caacaatccc ttgtggccaa cttcaatcgg 180  
agctaacgta ttccaacggt gccaatatcc tggtnnttct caccaccggg tccccatcaa 240  
tctctccaag ctccacaaa ttccattcaa aacaccatth aaccagaaca agctatcaca 300  
gccaagcaaa acagggcaaa gggcaaaaac tctgtcaca caccaccaa atcacagctt 360  
tcttactcaa gaccaagac atttccttga tccattcgta acattgatca ctcaaattta 420  
ctgcagtcac atgcttaacc tcatgtgacc gtggattact acaacatcag actatthgac 480  
tactttcaca gcaccg 496

<210> 13638  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13638

agcttgacat ctaaagtta gtggcactac ttacctctcc aaccagata atatgcatta 60  
acaatactaa cataaagatc aattgccaga gtcactataa taacgctccc ctggcttttt 120  
tttacacca tattattgta ttgaattaga ctctgttgtg tatttaagag ggttgggcgt 180  
tgaaatgtct cccttgaga ttgcaaccaa tgaattaacc aataattatt cgaaacaaat 240  
aaattaaatg acccatctg aaccaaatat atctcaagtt agattntatt tcctccaatt 300  
cttattattt gactnttttg gatgaaatgt ttatattata tatncgattt tatacttaca 360  
taaagatcaa tngcccgagt cactataaca acgctcccct actttttgtt ggcacc 416

<210> 13639  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13639

ngtagtgctg gaactatcca ccatcgaaac ataatcagta agtgattcac tagttcaata 60  
 ngtagcaac atgtaaaatt ggagttgact ganaattntg gagtcacagt ttcaaaggta 120  
 agaaactnta atcactccat agcttctttn tctatTTTTg acgtcaagga tgctggaata 180  
 ttattgaaga taaaaggaat ttacatcatt agcaatattt ggtccaattg atcagggacc 240  
 ttatcaatcc agcatctatc taataaagaa naagccaaat tggctaaaca atgggcagct 300  
 ttatttcctt gcctcttattc aaaattaagt ttctgacttc ctgccactgn gtccagtcctt 360  
 cttgtctcct ccaccagacc atgaaagaga gagcgacctc ctttgtctga tctgttccac 420  
 tcattgtaca actgcatgca atctgtctca tattctgctc canagatgca caattcg 477

<210> 13640  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 13640

attatatatt caggaaatta tgaaggagtg tacaaagatg cccatttcta cacaaatcta 60  
 tataatcatc ctattacttt gagttactta aactcccctt aaccagttta atatttattt 120  
 gaagtggtag gattcatgca ttgccacccc atcatgtcat aaacaccttg catatactca 180  
 tttattcaca gatatgctaa gtatttgact ttgattgcc cacactttac tgaccattga 240  
 ctttgatcat t 251

<210> 13641  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 13641

ataatctaac gagccgctcg accgtgatca atagatactc tcgagcaata tggatgcatt 60  
 ctctgggtgt catgtgctgg tatcaaagga gtccgattaa gataggactg tggtttagtat 120

cattggatca gatggtatgt tctgactata tatttagatt actttagtgt gttgattgtc 180  
 tatcatactt tacataatgc gttgtgacat gcaatattga gattgatcac ctcaatactg 240  
 tgggcattgt aactatgaat gatggcagat agcaatcgat gcctatagca gctgtcctt 299

<210> 13642  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13642

ctcttgcattg gctttttaccc agttcttattc ttctcatagca tcatcaatat gcttgggttc 60  
 cacttttgaa atgagagttg tgtaaccttg ttttctgaga gatccttttg tttggacctt 120  
 ggttgagggg ttgagggatc tctaattgatt tgacactctg gatgggttctt ccttagaatt 180  
 aatctagttg gttctctttc ttcttgaggt tgttctgtta cttgattaga cacgtctggt 240  
 tctggatatt gntctatcag tggccaatg ccttcgtcca gtcttatatc tataaaagat 300  
 tcatcaagct gtggccatta tgtatcntac tntgtgtcat taaatcttac atgaatagct 360  
 tattccac 368

<210> 13643  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13643

atgctgtcgc agacttgcca ggtgattatt ttgttttggc ccacacattn ttcaatgaga 60  
 agtgatcatg gaggtgaatt tcaaaatgag tcttttgana acttttgtga agaaaatgga 120  
 attcaccata attttcaacc ccaagaacac ctcaatagaa tggcattatg gagaggaaaa 180  
 atagatccct tgaagaaagt gcaagaaccc ttctaaacga aaccaggttg cctaagtact 240  
 tttgggcaga tgttgtacat actgtttggt acaccttgaa aaaagtactt attagacctt 300  
 ttctgaagaa gactccttat gaattgtata aaggaagaga accaaacact ttacacctga 360  
 gagtttttgg ttgtaagtgt ttcgttttaa caatggt 397

<210> 13644

<211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13644

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atcttaatgt atgcccgcgt cattcatccc tatgagatgt tgttgaagta ttggcgatca 60
gaattgccat tccttgatt ataggggtga accaagctca tgcttttaca aaaagggttca 120
tcaagtcaag ttgaaatatg gaagtaaccg tcttgcaaaa ttgnggcaaa agatgaatcg 180
agtcacatca ctgcttcgtc tactgccaaa catatttagg attgttgatg tccttggtac 240
ttccagtttc accttgacaa agatgtcatg gaccatgttg aaaatctaaa ttgattcaac 300
cccatatcct gcgtaaaaaat tcgcaatctt caactgtaca tcattcgcat acatccatgc 360
ttttcattgg ttgcattgct cattgcattc tttccttgaa aaataaaata 410
```

<210> 13645  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13645

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tccacaacat ccaagcaaaa caatattcaa acagttcaag ctatcacaac caagcaaaac 60
agagcaaagg caganaactc tgccaaaaca ccaaccaaat cacagctttt ctacttaaa 120
gacccagta acaattcctt cgatccaatt cgtaaccgt tggatcgact ccaaatttt 180
actggaagtc tgtagtacat aatcctacat tgtgaccgtt gggatctact agcaaacatc 240
cagaacccat ttacattac tctttccaca accagcaaat acatagcatt tttctgcact 300
tgtgcaaaat cctgctgcac aatttcacag caaaaatctg cacaagtgc agatttcgaa 360
natcacactt cctctcatcc aatcttgctc anatcaatcc ctacaagtcc caaatcatgt 420
atcaatcatg tctaaccan aatcaagctn tacagcacag caacata 467
```

<210> 13646  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13646





ttgactcaat cttgaaatca ttctatttgg ctttctgtca tcatcaaacc tacttgatat 360  
gtacttgaat caccatcatg atacttgctt atacacttac tgactc 406

<210> 13649  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13649

actaagctgc acctagtctc actaggtcga catgctttca tttgtctgat taagtttagac 60  
cacagaacag ggtttcggtc ttatcacatt atattacttg atgtccagga agatgcttaa 120  
tgcttgnacc aagtaaaaga atataggaga atttgcctgg cacggagact caacgtgata 180  
ttatTTTTTT cttgcatcaa tcatatacac atTTTTTTTT tataaaactt gtactatttg 240  
ttctctcttt atcacattag ttaatcattg tatctctgca tttttcttc ttatctttct 300  
atctgacata aaaaaattat agaaatataa tctctcttct ttcctcattn ttagacaagc 360  
cattctacca ttttcataac acacattcaa atgttcattc attgctgata gtattacgct 420  
aaacacacac gatcaaattg taattaaaac 450

<210> 13650  
<211> 386  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13650

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aagattggat gaagggaagt gtggttttcg aaatctgcat tntgtgcaga tttttgctgt 120  
gaaattgtgc agcaggattt tgcacaagtg cagaaaaata ctatgcattt gctgggttgtg 180  
gaaagagcag tgcagaatga gttctggatg tttgctagta gatcccaacg gtcaaaatgt 240  
aggcttatgt actagagact tccagtaaaa atttggagtc gatccaacgg ttaacgaatt 300  
ggaacgaagg aattgttact ggggtcttta agtgagaaaa gctgtgattt tgggtgggtgt 360  
tttggcagag ttttctgcct ttgctc 386

<210> 13651  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13651

tcttgactca ccataaacct tgatccangg ttagaatgtc aatccttacc ctcagaacca 60  
 aaaaaagaag agaaggaaaa tttccaatca aaggaaaaag gagaaggaaa atttccaatc 120  
 aaagaggaag caaaaaaagg aaagaaggaa aatttccaat caaaggaaaa agagaggaaa 180  
 ggaaattccc aatcaaagag tgggagaaag caaaaagaaa agaaagaaaa ttccaatca 240  
 aagaatggga gaaagaaaan aagagaagga gaagaaagan agaaagctca tgatcaagga 300  
 tcgaaagaaa acaaaagaaa tgtgcagaga ggtctntgga ccagacaata tctgaacaat 360  
 acggaattgt caccaaata acaaaagaaa gaaaaggaaa ccataaccta naagtgggtct 420  
 tctccttttg ataccaacca aaatctgtgt gtc 453

<210> 13652  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13652

tatgcttata tattaaaggt tgggaatgaa tggatataaa tcaggatctg ctctccttgt 60  
 aaatgctgag ggtgattcta ttggtggana gttgtgacgg tgggaattggt attaggttga 120  
 agatctctcc gcgccgaacc gcaattggag aaagcgcaag cagagctcan gtgacgggaa 180  
 aacccttcat gtgngttgca ttttgcgttt gatacctttt tttactgcca tccattccat 240  
 tctattcata aagataacta gccatgtcat atcaagagga gatgatgtcg tgaaaaagaa 300  
 gngagagcct tgattcttga naagtatgaa agtttgatct ttgcattcat atctcacata 360  
 cttgatgtaa tgatggcacc tgt 383

<210> 13653  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13653

gacactataa aaactcaagc ttcttgagat gccctttggt aatatogeta taggatttgg 60  
tatattccac aatctcatta gagacatcaa cattgaagta gtcaatgaat cttgaggcaa 120  
gcacaacata cagaaattca taatccacca agcgatgact nttcatcata atgtcttcaa 180  
tcagtagtac ctagttcatc ttgatacctg gtttcagatc ataaactatt tgtaaactcat 240  
catccgttac ctgagcatga tttcttgacc tcatgtgag aatgtangta attaggtaaa 300  
ctaacatctt gtctcttaag tcattccacc aactgctaag cgattcctta agttcgtagc 360  
atgggtcaaga agcattcccc tatagggtcta catcttattg tacccatcaa gcatttcac 420  
gaacttgc 428

<210> 13654

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13654

agcttattat tgattaaaac gtaccatata agagattcat atataaaatt attntattta 60  
atagggtgata tgaagaattg cttanatatc atcaataatc aattatataa aaattaaaat 120  
gaagctcacg agaatagtat gaaatcctaa aagcatgtat tcttatacaa aatattntat 180  
tttatataac anatntataa taaatacata tttttaaatg tataaatttt attataatta 240  
aaatttataa tacaaaatat tttttaatat ataaattata ttttagagtt ttgatangtt 300  
aaaacaattt gaaatttgaa ataactataa aatggacctt aaaattcaaa ttaaa 355

<210> 13655

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13655

tcaacgtggt aaggcttggt aatttatcca cttttagtta atttttatta gaatattaat 60  
cacacatctt tatttttaaaa gaacttaaaa aagggttgga gcaatttggt ggcccaaaat 120  
aacaatatac aagtataggt attaaactct tatgagaaaa aaaatttatg cactgattga 180

tatttacagt ataataagtt ttataacaatc attcaattac aatcaatcat gtataataga 240  
 ttnttttgatt tttaaaataa ttataaagta attcaaacga taattntgtg tttaaactaat 300  
 aatataaaat tgtttttacat tatcaatgta taggtattaa agtctaaaag ataaaaataa 360  
 gattgaatat gtgcatcttg agaaataatg agtttttaat aattatgggtt attttgactg 420  
 cataattatg aattactata 440

<210> 13656  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13656

agcttcttgt atcacttcca attccttacc tttgtactcc ttgagcttgt caattaacaa 60  
 tttacggctg ctttcaatct caaccaaggc aatntctctt tctgaccgtt gttgttggtg 120  
 cagaacctgt aatttgcaca taatacatat gattcccaaa ttattatctt attcacattn 180  
 ttattatttc ctcttgcaa agcataaaaa taaatcagaa aaactntcaa aatcatctta 240  
 caagcactaa tacaagctca atgctactat cctcatagtt ctaagaaaca aaatcatatt 300  
 cttgtagtgg tacaaagtag ccaagagtgt gaaaccaatg aatcanattt cagttcacat 360  
 tgtggatntg ctagatcaag aatgangaaa ccattcattt agaatgtaaa tgta 414

<210> 13657  
 <211> 201  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13657

gcatcatgac tctgttcana tgttcttgtc atagaaacta cccttttgct catcgtgata 60  
 gggttcatac atatgactct ccaaactccc acaagagtga gagccttgtg cactgngcca 120  
 ttattttacaa tagaagtgca agaanttgag tagggaccag ggctttctag tangaaaatt 180  
 gaatccctat gcatcatatt c 201

<210> 13658  
 <211> 236  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13658

ctactatgan aagctgatan gatacatgcc agctaacttt ggggatctcg tcttcgccgg 60

agaaagaatt gaatccggac taagaaaagg caagttcgaa tatgcctcca acgtggcccc 120

caacaacaat agaagagccc cagtgggtggg cgcgaggaat aatgaaggag ataccacgc 180

agtcaccacc acctcaacat ggatgaaagc atcccaaaat atccaaagct catacc 236

<210> 13659

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13659

ggatccttag agcacctgcg gcatgcaagc tattttatga cttttcgna tcatgcacag 60

ccgggcagga gttgactcac aataggccaa tcatatctat ggagcattnt ctttgagcaa 120

gtagcctggc ctgaagctca acttccattg gtgagacncc aacgagggtg cttcgcgctg 180

agnccacact tgtgcangtc aattcagagc cagctgaccc acaatctcca ttagtgaatc 240

caccttcttc acctatgctt gaagcagttc tgccatctcc tcctctaatt gtaatttctg 300

acgcatcatc agatgatgca gttgcccctc ctgattcacc aattgcaaaa atagctgacc 360

cctctgtttc ctaattggag gaattgctta tctctctaata tatcatctag agaagctggt 420

gctctcaccg at 432

<210> 13660

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13660

aaggacgtga ctcttcgaag ggatttggac ttttccaaat cggctttaag tgcttctaaa 60

agtcataact cttctaaatg gttctcttga ttttgattat tgttttctgc ctaaaataac 120

ctctggtaat cgattaccat aatagtgtaa tcgattacaa gcagttatct ctggcaatgt 180

tgatctctgg taatcgatta ccatatttgt gtaatcaatt acaacgcgtc cctgcaccta 240





cacacaaatg ggtgatcaga ccaaaagcat acaaacatca accattgaac acaaaaaaca 240  
 gaatcaatta gatattaagt atttacatca gttgttcatt agaaatcccc aactaggggtg 300  
 tttagcgagc cattacagaa gaaatcctaa caataataag cttacaaacc caaggtatct 360  
 ct 362

<210> 13666  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13666

actcaacttc gtangtaaata caagtgcac catgtccatt ttattctctc tcacggngtg 60  
 gaggttgccg catgttctca gaatattcaa aatcagaatg ttcaaaatta taatgctcaa 120  
 aaggtactaa atgatgtcta aataatctat gaaatgtcct atctatctca ngatcaaagg 180  
 attgtaagtc ggatggattt cgtctagtca tacactaaat tcagcatgca caattagtgt 240  
 cttctttatg caagtaatag tatagggttg aactacaact accattaaat gttgtccaaa 300  
 tgactagaaa ttntgtgagc aaccttataa aatgatgaga agatagcaca taaaatttca 360  
 aacaaaaatt caaagtctaa atatagaatc taaaattggg aagttaagaa aaataagaga 420  
 ataaaacttg gataataaca acattntgac agaatcac 458

<210> 13667  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 13667

tttctttgtc tttctaactt gttttgaagg tttgggttaa cttaaaagtt ttttttttat 60  
 ggataaatgc ttacgagtct acttacatga tctagttgat ttgaaggctt aataataatg 120  
 agatcatgat tttttatttt tctaaatatt cattatagac ttaatttatg gtgtcatctt 180  
 taacttacca tcacttatga ctatcaccca aaaaattata accaagatta tattacatat 240  
 tacttttcat caaatcatgt ttgacttgaa taagcctcac ttgttaaaaa aatctaaaat 300  
 caaagaccat caagtattta tcatatattt cacttgtag gcttgactta atcattctta 360



gcttatatag ttatgtatgt caaactact

389

<210> 13668  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13668

aatgaactct ctgtcttggt gccggtttta tattttgatt gnnatgcata aaatataagc 60  
atattgtatt gcggtttaat tctcaatgaa tgtctggttt gtcattggag atgccaatg 120  
tcagtttatt cttaattctt gatgaaatca ttaagactgt tctaattctt ctgccagggt 180  
ctcctttgct atcttcgaat atgctgaatg accaagatca gttaagggag ttggaaaatg 240  
cagttgtcan agaaactgaa gctaaaatga actacagaaa aagggtagtt gttgagcata 300  
caaataataa cagatagtat ggaaggacct gaaccagaa tttgtctcca taatatattt 360  
tgtaaactct gagctggcgg aattgtaatc tactgtttat aactcttatt ctgttccttg 420  
ttaaaa 426

<210> 13669  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13669

ttgcttcac taangaagag aataagagag agaggggggt gcgggaattg aaggagatta 60  
tgagagagaag ttgaactttg aagtgtgtct cacaagtttc tcattcatca aagttatgca 120  
agtgttacac atgtttttat ttatagccta gcatatggga agcttccttg agaagcaagg 180  
aaggtagctt ccttggaag ctagaggaag aaagctttct tgagaagcta gagaagggct 240  
actcataccc ctccaatagc taagcttacc cncatgcaa aatacatgaa aatgtgaatg 300  
tatgtataca ggttttgatg atgcaaaaag aatntacttg ataatgggtg taatcataaa 360  
aaataaggag aatgtgaatg tatgtataca agnttttgat gat 403

<210> 13670  
<211> 339  
<212> DNA

<213> Glycine max

<400> 13670

tttaagccaa atcctaactc accatagact cttgactctg tgtgagaatg cccatccttg 60  
ctctcagaag aagacaaaaa aaagaaagtt cccgatcaag ggtcgggaaga aagcaaaaga 120  
agaaaactcc caatcaaaga ttggggagaaa gcaaaaaaag aaagaaaatt cccgatcaaa 180  
gatcgggaaga taacaaaaga aatatgcaga aaggtctttg ggccagacaa tatctgaaca 240  
atacagaatt gtcaccacca aataaggaaa gaaaggatac cagcactga agtggtcctc 300  
tccctttgat tgccaaccaa aatcctgtgc gtcagtgc 339

<210> 13671

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13671

gaaatcaaag aatggaggtc aattataaaa taagttagt ggaacaaagg ggagtcgtta 60  
tcaccttta ttcaattact tgtaaaactc ttctttctat atataaaagg tggatatacgc 120  
gaggtggggg acccagaata atttagtcaa acaaaataac acatagtact ataagctact 180  
cagatcactt ttctttatct tntaactgtg cccctacttt ntgttatatg atgtaaatgg 240  
aatgggttgc atgtgggttg actggcctct ttcccttaaat ataatttgca ggacantgaa 300  
gcatacatag ctccaatnga tcgacnnttt gtttttgcgc ttgcgtttag tttcggatat 360  
tatgaataat aatgggttgc n 381

<210> 13672

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13672

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agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
accttggtg tatcaaagga ctttcacaac ctttgtgtgt tgcctcact ggaaagagtg 180

attcttttct tctttttatc ttcacccttg atctttcaaa ccacaattct agataatcca 240  
 cctctgcca gaattatctc gtggccataa ctcccatgtt actcactcat attaagtgat 300  
 tcttgagcct aaattgaatc tcaaaacgag accttncacc tcgttntgga atcacct 357

<210> 13673  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13673

ttctttgttt aataagaagc ctgnngcaaa tggagagagt aaaaatgagg gaggaaccca 60  
 tgctgtgact gccgttccta catggccaaa tttcccacca gctcaacaat gtcattactc 120  
 agcaaataatc gacccttctc attaccacc accctatcaa ccaggaacac ccaat 175

<210> 13674  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13674

tgccctgccc cttgatatat ttgaaggact catggtcact attaatgaca aattccttgg 60  
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
 aagttgaata gttaagggtta ggaccactta acttttctact aaaataagca attggatggc 180  
 cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactta atttcaaaag 240  
 atttttgana gtttggcaac gaaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
 tgaaagcttc ttcttgtgtc tctccccatt tganaccaac attnttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaa 409

<210> 13675  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13675

gcagatgacg aatgtagtct ctgncgtgtc aaaccggcct cgctttgcct tcttggttg 60

accaaaaagg gtgccnggat taaccataa anggtaccct tccgcattgt cattcgggac 120  
 ttgcgccgtc ttctggattg acaaaaaggt gcaaaaagac gatggtagtc tctgcgtgtc 180  
 aacaaagctc gctttgcnn cgtttgacaa aaggtgtaga tgacgatgtt agtctctgcg 240  
 tgtcaacaaa ctgcttgcc tctggtgggc aaaaggtgca gataaccata aggtaccct 300  
 gtatgtcatc ngctcactgt ctctggatga caaaaggtgc aaaagacgac gttagtctct 360  
 gcgtgtcaac aggctcgctt gcccttggtt gacaaaaggt gcagatgacg acgttagtn 419

<210> 13676  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13676

nccagtgacc aaacatgacg tgcgatgcaa aacctcaagc tgaagaaaat agtaataatg 60  
 taagtaaagt agaaattttg tgggaattaa aggtgattaa aggtgatcta gattccatag 120  
 aattagaana agaattattg agtcattaga aagtggaggg ccttttcatt aatgactata 180  
 ttactagttt aaaaataaaa ttntatttta actaattggt gacttattaa agtgtcta 240  
 tatatgatat agaattattt aaattagtta aagttgtaac actctaaaaa ttacaactta 300  
 gacttgacaa gaaaactcta tgttggtgctg gttgtgcatg tatgaattta atctcaatag 360  
 atatatgttc ttaatcataa aatttcgtgg tatgtatgtg tgtgtgtgtg tgcgcgccta 420  
 ttgattatta aaagcttgac anagaaaata aaattatcta agctagattt ccgtctgcgc 480  
 aagagttgca tttgcattga gtcataatgt n 511

<210> 13677  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13677

agcttcaatt ttgcaactta ggagttgagc aggtaaaaaa gattcgtctt caaactctta 60  
 gaggtgactt tgagcgtttg tntatggagg agtccgagtc attttctgat ttttttctc 120  
 gagtattgcc cgtaatcaat caacttaaaa gaaatgggtga agatgtngat gaagtgaagg 180



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13680  
  
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 gaaaagacag aaacaatgga aggagatatt ttgagaaagg ctatggcaca aataaattaa 120  
 aggggtgtatg aggaaaactg agcgagacta atttcaaata tgggttttaata aaaaaaatg 180  
 tctttaaata cttgattttt aaaataattt tattaataacc gtctttcaac actcaccttc 240  
 taaaacggtt ttataaaat tgttgtcata catctcttgt tatttacaaa attgttaccg 300  
 cctaacgttc taagaatagt ttatggtaac cgtcttataa gggcatcat aaaaaacaa 360  
 ntttttttgt aatgtcaata ccaatgataa aanacaccat tca 403

<210> 13681  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13681  
  
 tcaaggctaa gtctccatgt agctccgtct atctctatac atttcttatac atnaggtatc 60  
 taagctgtgg ttcttgaaat caagtcttgc aatgcttgat tcatcctctt agtcttgaac 120  
 cttgtcatag gacctccaat cccatgtaaa ggatcattag ctaggctggg tgcacctcta 180  
 tcagttgttc ataaaagtat aacctatgac ccttgaggag gcaattaaag atgaaaagtg 240  
 gatgactgtt atgaaaaaga agttgaattc aattgatagg aatcacactt agcaactagt 300  
 tccattgggt taatgaacta ttgcagtaaa atgtgtttat aagattaaga ggatgcctga 360  
 tggaacta 368

<210> 13682  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13682  
  
 ttctntgtta taaactatgt gcggaacaaac ttcattacta ttattcagta tatacaaatg 60

agcttgttgc aattcttcta gagttggagt gataacatgc aatccnctta tacctttacc 120  
 tctcactctc tcgtcaaggc gagactccag aatcccaaca gggtttgcct tttccatgta 180  
 cttagaacaa aactcaatag cttcttctgc aatgtacctt tcaataatag atgcttcaga 240  
 acagtgtaga ttctntatat acctttntaa gatcttcatg tatcactcaa tcgggtacat 300  
 ccaccgcann ataatggaac cgcaacattt aatttccctc actagatgaa caattaagtg 360  
 aaccatgatg tcaaanaatt aaggaaaata catctccaaa tgacacaag 409

<210> 13683  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13683

tgtgtgtgcc tatgtttctt tcacgggatt caagctcatt aaatgttttc tttncattag 60  
 atacttgggtg tgagactagg acatcattta ttatgatatg ctcttcgcga ttaataaaagt 120  
 tgtcaatgct agtggcattt ggaacttgtg acaaatgctc actttcttaa tactaaattt 180  
 ttttttgctg tgcaaaaaaa atgaatcaag ttgtcatttt ctctctcatg cacaacatta 240  
 tccagcagtt ggaaacataa ggctattaat cacatggcat actttaaggt caattataga 300  
 ggtgaatttt gatttttaag gtataggaat gaattgaact cttatagtaa gtttttgaca 360  
 acacgagtga caccttaaac agatgagtgt aactcaagat atgacataat ctttctaaaa 420  
 gtttcataca taacactcaa cacc 444

<210> 13684  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13684

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 ggatcattga ttatgtgttt atatattcaa tagatattaa ctctccttta atgtatgttt 180  
 tttgtcaaca tgtttttctt ggcttcgggt taattntatt attcttcana aaagagtgtc 240

cgggactttt tgacaaanaa atggatgttn tttatataaa aaanaacaat attctcaaag 300  
 agtgtagttt ggaaacaatn tacaagacat atnttttgtc acataatatg tangagaaac 360  
 caatctcggg gtcactttat atttgtttta tgtc 394

<210> 13685  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13685

ggagantnct aggagatctc acaattatga atgtatatat tttttaatag gaaatcaaca 60  
 actatgggtca aattccttaa taagattcaa ctcaataccc aggttccaat taagagattg 120  
 gatctcatta tgaacagaac aatccactca gttgaatgac aaaatcaaga attaacatga 180  
 aacaaatcaa atcacatgag aattgatagg atgancgctt ttgtgctatg gtatgtgcct 240  
 tacggatatcc aaagtacggg cctctctgct tcctatgatt gaagtgaaga ttcacaatgt 300  
 ctgctttcca tactctgaca agtaagcaag tcaactaact tggtaagaag aanacaaana 360  
 gtatttcaca atagaacttg aagctcgaag cgtctncatt gagaaaatan agtatgatta 420  
 aaaaatcaaa ccattgggta agctgggctcg gatagacnat caacat 466

<210> 13686  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13686

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 atgtggatgg ccatgtagat gatagcaaaa gggctntatg tgaccatact tgccacagta 120  
 gtgacacctc cacttctttc ttttgctcct tttctgctgc gttccatgat gtcgagaccg 180  
 atgttgtgac atcgtggctc cagtgtgttt tttggcagga acaaattctg tcatgggtgt 240  
 tctgccagca gacttaggat taaatccaag tcctctctgg tttccaacat tctttccaag 300  
 ctgcagcacc tcatcaagcg tatctgagcc tttattcagc atctttattg attctgtcat 360  
 gttttocagt ttagagttca gaaaaccaac ttctccttta agctcagag 409



<210> 13687  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13687

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 aacatgtggg ccatcatcga ccaatacaag gaaaagttaa gcctagcggc aactcacaaa 120  
 caaaggctag aggacgagta cgtgaaggta taagtccctgc aagtggaaag ggaagcaagg 180  
 gaaaggggtga tcgattcatt acacagagaa gcaatgatgt ggatggatag gttctccttt 240  
 actgaaattc tgatactgtg gacagatgtc gtacaggatg tcacgacatc gcgcttcaga 300  
 acatgcagct agtatatgac cgtatgaaca gaataaacia gtaaataaca caagagaatt 360  
 gtaacccagt tcggtgaaac gtacctacat ctg 393

<210> 13688  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13688

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 gatgggttga ctgcatgccc gaatatgtgc ttctagtgcg aagctcagag tatgcttctc 120  
 ttaggcttan attcactatg aaccctatgg gtgggtgcct agatttcatt atgtaaggag 180  
 aaatcgaaag tgcttgcgat cgctggtgaa actcaccatg cataatggac atctaatttg 240  
 tgctgaatga cacaactgga ctagatccac taatgaccct atgggtgggt gcctaagttg 300  
 cgttttctaa gtagaattcc atattgctag agaattgtgt aaaactcaca ctgcataatg 360  
 aaaatctaatt tcgggttg 378

<210> 13689  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13689



<210> 13692  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 13692

agcttcatca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60  
 taaaaagtta ttgtcgtttg aattgggtca gagcttcaac attcaatttc gagggctctcg 120  
 atatattgcg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180  
 agagcttcaa cattcaattt cgagcgtctc gatatatgac gggactcaat cagacatcct 240  
 agtaaaaagt tattgtcggt tgaattggct cagagggttca acattcaatt tcgagcgtct 300  
 cgatatacta cgggacctca tcagacatcc gagtaaaacg tattgtcggt tgaatggctc 360  
 agacgtcaac attcaattcg agcgtctc 388

<210> 13693  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 13693

tgagccattc agacgacaat aacgtttact ccgatgtctt attgagtccc ttcatatatc 60  
 gagacgctcg aaattgaatg ttgaagctct gagccaattc aaacgacaat aactttttac 120  
 tcggatgtct gattgagtcc cgtaatatat cgagaccctc gaaattgaat gttgaagctc 180  
 tgagccaatt caaacgacaa taacgttgta ctcggatgtc tgattgagtc ccgcaatata 240  
 tcgagacact cgacattgaa tggtgaatct ctgagccaat tcaaacgaca ataacttttt 300  
 actcggatgt ct 312

<210> 13694  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 13694

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 gagctgtatt gtgtagacaa ctatgtaggt aaaaggetat tttgagtgtg tgtgtgtgtg 120

tgaggttgag tgtgtattaa gttttatgtg ttgtcatgtt gagtgtgagg gaaactgagt 180  
atctaactct tatccaaagg cagtctctct ttctatttta tatataaata tataagcagt 240  
ggctgagaaa taaaaaaaaa aaaaataact cagcacttct ctattgtatt gtgtaattca 300  
aatttcttag caatgtagtc acttcatttt caacaattac atactcacca taatgaaccc 360  
aagccttaat gtcataatct aatttggtca cagatca 397

<210> 13695  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13695

tgaagggatg aacacttcta agtgttggtc tatgtggatt tatagtccaa agagaaaata 60  
cattgacaaa tccaaaatcc taaagtcaat agagatgatt tattttaaat aataataata 120  
ataataataa taataataat aataataata ataataataa taattattat tattattatt 180  
attattatta ttattattat tattattatt attattatta ttattattat tattattatt 240  
ttattgagtc cttacactta tactattatt atgtgntggt cttagatta tatctagaaa 300  
ctacgttgta atctatacat gtacttttaa ttccattata atctttattt cattaagtgt 360  
atactaatgc caccaaattg taatttatgg tggtacaaag ccaccacaaa tntattacta 420  
agatgatcat tgttgacaat gtaacaatcc tta 453

<210> 13696  
<211> 245  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13696

aaaaaaagca catgcattga cgaagactca aaatagggag cacctcacac ttattaanag 60  
gaatgtccag attacgataa gatttgtcaa gctgttaagt tattgatgca taattattag 120  
tgtaaaciaa atggttaagca tcacggatgt atgtgtcatg ctatgattac tgataaagtg 180  
taaaattaaa agatttggtc tgggttaggt gtaatacgat cgttattggt tttttctacc 240  
ctccc 245

<210> 13697  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13697

gctttangga aaacttgtgc ctgggcaacc tgtaactcag cttgcctaaa tcnaaatctc 60  
 atcntgccct gttctgtttg tagagtctgg gtctatgttc tttgctgac accatacaga 120  
 tctctgtcct tctttgagta attggagtca tagcaacctg aacctatgct gaacatttat 180  
 atagaccctt cacagcaaac cacaataaat attatacttt cagcacagat caatccagtg 240  
 gagaatatca atctgaatgg aaatctccaa caccattctc cttcaaagct gtgtcaacag 300  
 catatgtctc tcatgacata catactcaca 330

<210> 13698  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13698

tttcaganaa tattctcaac agtcacatct ttttatgtgg ttcttgaatg gctatcaaag 60  
 gcctatatat atgtgacttg agacacgaat ttgctaagag tntttcagaa caaaaaggctc 120  
 ttatcctctt ataaagaaaa atcgttttat cctcttaca attccttggc caaattactt 180  
 gtgattcaat aaggaattat ttgagtgtc aaattgttca atctatctct ttcaagagag 240  
 atttcttctt ctcttcttct tcattctgan nagggattaa gagaccgang gtctcttgtt 300  
 gtgaaataat tc 312

<210> 13699  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 13699

accattaaaa aaagctgtcc ctccatccat ctgttgcaac tcaagggtcaa aatgagcaac 60  
 taatgccaa attatacgaa gagaatcttt cttagatact ggagagaaag tctctttata 120

atctattcct tcctttagag tagatccctt acaacaagac ttgccttgta tctctcaatg 180  
 ttagctaatz aatccttttt ggtcttatag acccatttac atccaatggc cttcgcccca 240  
 ttatgcgact ctaca 255

<210> 13700  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13700

aggaaacggg nngaatgag ccatcganan ctgagacntt cggannctcg cgagttcctc 60  
 agagccgacc tgaggcatgc aagctatattt gngggtttan atttttacca gaaggacggc 120  
 aatggatcca tagtatttat aattagctga ccatcggata ttgctgatat atatacataa 180  
 ggttaaattg gatagtggat acggtggaat atattaaact acattgaaat ttgccaaaac 240  
 caanaagcct ataaccattg tcttgggtgc attctcattc aggaacaggt ttcacttctg 300  
 acaaaacaaa attcttacat aaaagaaacg gctctgttca atttgcctat ctgatctgct 360  
 gtgtctcatt accatgatta caggtcattc agtgacacgt gacagtagga actcatcctt 420  
 ctacatggat tttgagaccc ccattgggtgc tatacccgaa tcttcttag 469

<210> 13701  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13701

ggcttgtttc tacaatttcc ctctttttga tgatgacaaa cctgaaatca agaaacacat 60  
 acacattctt tttcctagtc gatcactcac ttaattctcc atattctccc cctttgtttt 120  
 tgagtttaag cttcacttga aattaaatta attaattata tgagttcttg atttaatccc 180  
 tattttctct cctcttttgg catcgacaaa aagccaaagt gtgtaagaaa tataaaacat 240  
 acatgattta naaacaacat acacatagca tccgttgtaa atcaatcata aaggatttct 300  
 aactaatcat gaagcanggc atgaaaccaa atataaatgt aaaccacata gtcatataac 360  
 agaactcata aatgttcact cataactaagc anatattaaa a 401

<210> 13702  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 13702

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agctttttatc caattggact aacctggaat aaatgccttt gatagccctt ttgagccttg 60
tttccttttc cttgttttga agctactaca acccttaggg aaaaacatga tataccatat 120
ccttaggaat tttgagcttt gaattgtttg ggaattaatg tgggggggtt ttgttcattg 180
acaacttggt tgtggctatg ctcatgatga ttttggccat actgatgtac atgatattgt 240
taaagtgtga catgctgaat aaatgtttgt ctcaaggcta agagtaaaaa aaaaaaaaaa 300
tcgaaaaaaaa aaaaaaaaaa 318
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<210> 13703  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13703

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ggagatgaaa aaaatcatga ggaagcggta tgtgccggct agttactcaa gggacttgaa 60
attcaagctc caaaaactaa cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat 120
ggatgtgctc atgattcaag cacatattga agaagatgag gaggttaacta tggctcgatn 180
tcttaatggt ttgactaatg atatccgtga tattgttgag ctgcaagagt ttgttgaaat 240
ggat 244
```

<210> 13704  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13704

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cttgcgtagc cgctcttggt gctcagagat ttccaaaatt tttcctctt atnactagct 60
atthtgaagg ctttagttcc tgaatgtaca accttcaaat tgttgctcgt tcccctcttt 120
cttttctgca aaaaagaaaa tcaaatgctg tcaaaacatg gatgaagtcc taagaaaatc 180
```

aatatcaaag aaaacatgga tgaaatcaca attaaaaagc acaactacct atctttcaga 240  
 gtcctttggt taatttgtct tgtctcctta tgtgggtggag ttttgtttaa taatcttata 300  
 ctatctgcct tccaaaaaaa cttatcacta atccctcttt cattaatcca atattgtatg 360  
 ttattgtata aaagatcatg gggtcttcac ctgcctccac t 401

<210> 13705  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13705

tgcattcagg aacctaacaa acaatacaag atgcttcact tccagtcctg ctccaatgaa 60  
 taaatcttta taagtaaaac atgtatgttt attctaactc accccatctt ggagcttgtc 120  
 ctctacagca gtggcaccaa gaagaattag gttcttctca atcttatctg atacttctc 180  
 aatcattata tcttgatcag cactgactac attcttggcc ctagagaatt tactatcaaa 240  
 ctccctgtat tcttctgcat caagttcacg ataggccagt ataaagggtc tcaaaccgcg 300  
 atcagcatac tcatgcacat ngctcatggt tttctcttca aactccttcc tattcttggc 360  
 aagcctttca aacatggtgc tgcataaaaa catcactc 398

<210> 13706  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13706

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 ccattaatga caacctttgg tatggaaaag ttaaataaaa tgtatgtctt ttcttcattt 120  
 aatgggttctt ttggtagggt gtacattatt ntatgttttag gttaattttt tctcagtaga 180  
 tactccctat attgtgaata aatgtgggtc aacttcagtt cacgtgaaag atgaagaata 240  
 gaagttgagt agctgtgtct cctaatagagg ctatgcccta gtgagtacat cactaacgag 300  
 gcctcactcg ctagtggttg gagatctgg 329

<210> 13707



<211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13707

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 aatctgcacc tgtcgctaga ctctantggt tatgctcttc tgacgaccac cacacagacc 120  
 tttgcccttg tgtgcaacaa tctgaagcaa ttgagcagcc ctaagcttat gctacaaaca 180  
 tctacagtaa acctcctcaa cctcagtagc aaaatcagcc acaacagaac aattatgacc 240  
 tctccagcaa caggtacaat ctgcggtgga ggaatcatac caatcttaaa tggtcgagta 300  
 cttcacaaca gtagctacaa caccagcctt atttgctaaa tgttgctggc ccaagttgac 360  
 catacgttca ctcaccgatc cagcagtaac aacaacaaca gca 403

<210> 13708  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13708

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 cgattcagtt cggaaaacct gttatcctct tacacgttga acacttgatg cgtgctagct 120  
 agtcattctt ccatatgctg taccatataa gatccaaaag aaatagttta taatgatgca 180  
 tgtacacttg ctctactggt ccatgctaga atttgcatgc gctgcatact anaatcattt 240  
 aaagagagga aaggatctat agaatagaga caagcgtgtc tctgttctat atatncagtc 300  
 atttaattaa atacacgcaa tggatttctg catgttcata ttttaaataa ctatattaag 360  
 tc 362

<210> 13709  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13709

tacaacgtat gctgcgtgtg acatcgtctt ttccgactat atataaataa acaaaatata 60

taaaaaatat tggtaaaca attcacgtgg gtaaaagggtt cacattcact tcactattac 120  
 caaataaaac ttattaaaaa tatattcgac tctaaacaaa gccgtcaaaa ttacaaaaa 180  
 acgttttggtt aaatcaatga ggtaaaataa aatagactaa catcatgcaa ttaatataga 240  
 gcttatgctc caatgtcaca tcctatcaga gcattgtgta ccgacgtctt tcagcacaag 300  
 gttccttaaa gtaaattacg tagtcatctg ctccccgaa cacacagttc aagatcatca 360  
 catgatccan acacaaacaa cacacatg 388

<210> 13710  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13710

catgttggtc tgaaaatcta aaatgtaact cttaaaaatg tttgactttt ccaatggggtt 60  
 tagctttcta aaagtataac tcttctgatt ggcttcttga ccagacatga gagtctataa 120  
 agcacgcttt gnttcgcatt ttctatcaag tctttctaac attccataca tccttacagc 180  
 cttgatctct gtgaacttct tcttctcttg tccaaagctt atgaaatttc tggttttcaa 240  
 acctgaaact tggctatcat cctt 264

<210> 13711  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13711

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 tgggtggg'gc atgtttggac ataaattgca agagaattgg ggcaatgtgg catgccccat 120  
 tgcttcagaa tacaacacag gctaaggcc ttctcacaca aatcctcaac tcaacaaatc 180  
 aagcatcana gcaaccana actgcctcac aaatataagc acgttctcac aatntagagc 240  
 accaaaagat gaagaaaaca catcaatgag aagctaaaaa cctcaggatt gaatacttac 300

<210> 13712  
 <211> 353

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13712

ccttgctcta aattacatgg aggttggtat ttttgaagga tgtttttgcc atttttgttt 60  
taagagtagc attccttggt aaaactaatt ttccaaatgt ttgccttcgc aggaaatggc 120  
cccgaggaag cttgcctcaa agaggtccag gaaggacaag gcggccgaag gaactagttc 180  
cgctcctgag tatgacagtc accactttaa gagcgctgta caccaggagc gcttcgaggc 240  
catcaaggga tggtcgtttc tccgggagcg acgcgtncag ctcanngacg acgagtatac 300  
tgatttccag gaggaaatag ggcgccggcg gtggacatca ctggttactt cca 353

<210> 13713  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 13713

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ctgtcgctag ctctatgggt atgctcctct gccgacacca cacagacctt tgccttgtgt 120  
gcaacaatct gaagcaattg agcagcctaa agcttatgct acaaacatct acagtagacc 180  
tcctcaacct cagtagcaaa atcagccaca acagaacaat tatgacctct ccagcaacag 240  
gtacaatctc ggggtggagga atcataccaa tcttagatgg tcgagtcctt cacaacagta 300  
gcaacaacac cagccctatt ttcaaaatgt tgctggccca agtagaccat acgttccttc 360  
accaatccag cagtaacaac aacaacagca gc 392

<210> 13714  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13714

agatttaagc caagccctta ctttcgaggg gcaactccca ccttatgaag actatcccg 60  
gcaagacgat ggggaatgag ataccatct tggccccctg ctccacctca aagatccatc 120  
cccgcatgaa ctaccccgag cgaacatagt ccactatata ccggcctcac ccacacccgt 180

aaaagaatct gttcccttcg cggaagataa gggaaagatt gacgcgcttg aagagagggt 240  
aagagcagtc gaaggccttg gcaattaccc attctcggat ttggcagatn tatgtcttgt 300  
gcccaacatc gtcattcctc tcangttcan agtaccagac tgtgataagt acaaa 355

<210> 13715  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13715

agggaggggt nagatagctt taaaccgatg cttcgacatc cgggggttnga gccgccncgg 60  
gatccttaag ngacttgagc atgcaacttt ttgggccttc ctgcaaaca acattgggag 120  
taagtttacc aagaataatg cctaatttta caccaaaaat gacatgccta atccctccgg 180  
ttaaaaacga actcatgcc acgttaaaag tacacattta tgcacatgcg tacgtgtaaa 240  
aatatcctac tattatgtca cttacaagac acccacacat ctaattgcct acattatgtg 300  
catctgaaag acacacttct atgctcaggc gtgcgtcaac ttacactaat atatccta 360  
ttgctattca actactacca tattgaatat attcatcaaa tttatgttac tcctttatta 420  
ttgctatgga aacta 435

<210> 13716  
<211> 348  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13716

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aatggtgttg agtttaggtt cctttgattt ttgtcttgtt attttttgtg gctganacct 120  
aaaccatana attcttaca aaatatacaa gttagaaaaa cctcaaaatc tagagtgact 180  
tggtcacgta ttggtagttt gtcatagaag tcatgtctag tcatgaaact tgtcacataa 240  
gaattcttat gttgggctga attntatttt cttgggttctt tcgctaactc atttggtcat 300  
gagtgtataa attatttagc ctattatttg attgagtcca tctttcat 348

<210> 13717  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13717

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aggggncaag cggganaatg aaccttcgat anctttcgaa atctagctcg gacccgggat   60
cctctgagtc gacctgcggc atgcnagctt tatctggatt atttgtattg ntncgatggg  120
gaattctggg tggctcctggg gcggaaatga tggtagacgcg ggtgaaccag gagcggcagg  180
ttcttttggg gaaggaacca tgggaaaaca gaccgttgga atgaattcta aatctcagat  240
actattggga tatgctgata aaacacgaat gccaccgat atattttgaa tgagcatgta  300
tagggcgtgt gaagcaccgt cgaattgctt gtgggaacgg ctataatggt agtgattcgt  360
aggcacgtca gatagcataa ctgcttaatt ctctaccgac aatgccactt gccctagtgt  420
tcaactgatt gctccagcct tggaaatatt gctttgtcn                               459
  
```

<210> 13718  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13718

```

agcttggttaa tggagaattg cactaatcaa tcactacgca tagctgcaaa ctggaagggtg   60
gaggacacat gaacgaaaac acaattcatg gggctccgaa aaaaggggttg ataatggaga  120
attacactaa gcaatcacta cgcatagctc acaacttgga ggtggaggac acatgaacga  180
taacgcaatt catggggctc ccacaagatn gaaaatggag aattgtacta cgcaatcact  240
actcatagct acaaacgcga aggtggagga cacatgaatg acaacgctat tcatgggtgct  300
tcaacatgat tgataatgga gaattgcact aacaatcact actcattagc tcaaactcgg  360
aggatgagga cacatgaatg aaaatcaatt catgcggctc cca                               403
  
```

<210> 13719  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13719

ggcncggcgg cggtcnnngn aactggccat gaanctnoga cnacgaaach atgctnaagg 60  
gagcctacca ttctgctggg accaatgggt taataatttc atcanggcga acaatcttcc 120  
actactttgt ggtctatatt acacgcccga gtagatcctt tagaatctga atagtctgtt 180  
cagtctgacc atctngttga agatgaatag ctgaactaaa gcttcagctt ttgggtccca 240  
aggctttcat tgtagaactt tgtccaaaat cgcgaagtga accttgatc cctgtcaata 300  
catactagag gaattcctgc accttctctt cttgattaca actcactagc tnttgcatc 360  
tatacctcat attcactggg ataaaatgag cagatttggg gagtcgatct actatgacc 420  
acacggcatt atgcncacga ctagtcttgg gtaaactaga tacaaaatcc atagatatgc 480  
tcttccat 488

<210> 13720

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13720

tgcattgtgaa ttaggacgca ttatcaagaa tcaagccaat gctattgtgc aagcaatcaa 60  
tggggcataa cacacccaat gattatgatg atggatgggt caanattatc acanacgtaa 120  
aatcatcact ttcaaattga gctttcaaac tatcatgaca tgtagagaaa aatcaaagat 180  
ttcaagtcac aaaatgtcaa gaactttatt ttccaaaaca ataccattt cttgaacata 240  
tcctataatt caaaagaaaa catgctaagt cgtacgtgca cacaaaattt gaccctaatt 300  
attatactaa aaatctga 318

<210> 13721

<211> 280

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13721

tatcgagacg ctcgaaattg aatgttgaag ctctgagcca attcaaaca taataacgtt 60  
ttactcggat gtctgattga ctcccgaat ataacgagac gctcgaaatt gaatgttgaa 120

gctctgagcc aattgaaacg acaataactn ttactcgga tgtctgattg agtcccatca 180  
 tatatcgaga cgctcgaaat tgaatgttga agctctgagc caattcaaac gacaataaac 240  
 tttttcacgg atgtctgatt gagtcccgta acatatcgag 280

<210> 13722  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13722

agcttctatc ctttanttac atttcaattn attgaactaa tgatctttga actaataata 60  
 attaataata ttttaatatata atatattaaa aaatatattat tggagttgaa ttaagaatgc 120  
 cgattcataa ataaattgag agaaattgga atggtaatgt ctatacaaac ataaacagtt 180  
 tatgagaagt ggtggttact taaaaatatt ttgacacaca agaaaataat tgttacctat 240  
 aaataacaat cttgaattta ctagtagtga attaataatt attatctata aatattaatc 300  
 ttgtaatgta ttaggggttga aacttctgcc ctacanactt gtacaaatcc cgacacattn 360  
 tgtactcatc 370

<210> 13723  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13723

aaactagttt tatatgtgat tatatattgt aacaattatt gtacaccaa aaaatatatc 60  
 gtaacaatta atgagtaggg gttttctttt ttatattcaa caactagatt gattttattt 120  
 ctttttggtg tcccccgat ataaaggatt tggtttcatt agaatgtcca ttcttttttg 180  
 ccaacagtat gaatttttat ttcaatctta acgaataagt gcattaacat tnttacacga 240  
 aaatntactt ttaagcatcg gaatttgaat gattccttaa gaataatgta agagggtccc 300  
 tgcttatatt ctaactaaac atac 324

<210> 13724  
 <211> 364  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13724

agcttgttga ctataccttc gaccgaacac gaccagtgtt ctgtctaggc ccggattcaa 60  
ggcgggctgc aacacccgct ctgcttcctt aactgtactg gaggcgggtg tcatggctnt 120  
atcctctatg gttttctgga agtttaacat gacctcogag atggaagcca tttgatcttt 180  
taaggccgat agatcggcct tcatctgttc ctgcacgccc tcttcattat ccatttttct 240  
ggatcgagtg ttatanggtt gccttggtgg tttcttaatt atgatgaaat tcctaaagaa 300  
ataaacaacg gtgagtatgc caccaaaaca tgagtatgcc aatggatgat cggaacactt 360  
ggat 364

<210> 13725

<211> 282

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13725

tgccttggtc cctttggtaa tgtagtctct acttctagt accatttggt atccctatat 60  
atgtctgaat agttagctaa taaaattaaa actctctaga tgggtggatcc cattctntaa 120  
tggtgncatt ttcctaactt gtgctcaaaa catcacaagt aaattagatc gttatcctcg 180  
aagaatgagg ataatgagt aattatgtag atctaataag aacgatgata attaattatg 240  
tagaattgct attgatgata tactccctta tgataatgga ta 282

<210> 13726

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13726

agctttatca tcagaccact tncagggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tggtgttggt gatgatttct 120  
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaanaag actgtgtcat caagagaatt angagtgacc 240



atggcagaga gtntgaaaac agcaagttta ctgaattctg cacatctgaa ggcattcactc 300  
atgagttctc tgcagccatc acaccacaac aaaat 335

<210> 13727  
<211> 177  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13727

caccaccatg aatgtgcctt ggataagaag cttgaagagg atgctntaat ggangaaaag 60  
aaagagagaa agggggagca cganattgaa ggaataaaaag agggagagaa gtggaacttt 120  
gaagtatgtc tcataagact ttcattcatt caaagtacaa caagtgttac acatgct 177

<210> 13728  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13728

aaagaaccac cttcaggtcc aaaaaagtga ccaccttagg gcctggcttc aaatccaaat 60  
tgaccaccaa ggtaggggtt caaaccattg aactcaattg caaaagcatt taggggttttt 120  
tgaactaaaa tttttttttt ttttttgatt tacgacgggt ttttatatta acttgcataa 180  
ttntataaca caaaacattc tanggtgggt tcaataacc gctanaatgt acgtcgtgaa 240  
ttccaatttc aatatataat tacaaaattg caccgtatca ctttctanag cggttcccta 300  
taaccgcgtt agaaccgtgt cgtaaaattt ttttttgagt agtgataatt aatactttca 360  
cattagtatt acg 373

<210> 13729  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13729

aggggnaagc gggggatgag ctatgagccc cttgaattcg ananngnaca cggaatccnt 60

taaaggcacc ttgaaggctg gcaagctggt tatttacggt atttacctan ngggaccccn 120  
 agaagcgatt cttaagaaat atctctcana ttaaataata ataaaaccac attgggggtc 180  
 attcgcaaga aggaaattaa gctcaaaaaa accataacca ataagggata attacttacc 240  
 attggaaatc aaccaaaaaa ctttttaggaa ttaaacaaaa agcttctatt gtgtgggttt 300  
 cacaactacc acctcttgag agaaagggtt ttaggccaca atggatacat gaagaattga 360  
 gatgatgaga caaattgaaa taggagaaat gaagttcttc atgttgatag ggaattaaga 420  
 gaagtaagtg atcctttatc tatccactac ctcttttttt attcccaccc tctctaattg 480  
 ttttgacta aatattn 497

<210> 13730  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13730

agggagggga agggagctgt gcgctgannc ctgaattctg angnncatgg gatctntgag 60  
 ncacctgagg cggcagcgtg ttgttagtgt tgggcggtct cctcacggtc ttgtcgggac 120  
 tgcgagcttt ggccactgca tttccttccg cgagcttctc ttcataacog gcctgagtgg 180  
 gtttatagcc taaccatac tcccacgatt tcctttggca ttataagcta ttatgccgct 240  
 ggagctttgc cccaacccat tcggagtcga accggttcca acataactcg accattatta 300  
 tgggtgctcg acaacagctt gcccaagaag aacacggaga aatgctccac ctaaagacag 360  
 aagcgggtca aagaccctct gcggctccaa aagcataagg aggcagctac caaaggttct 420  
 cccgcacaaa acaaagc 437

<210> 13731  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13731

agcttttaat gtattgacaa aaaagagaaa acccggaacc cagggggagc agnggagaca 60  
 gannnaagcc gagcngaagg ccaaanggac actntcaatc gacaaggaca gtgtcgatga 120

cactgtatac aaaaagtatg acataagata agagaaatgg gcccaatttt atcaaagccg 180  
 catagaccct tcatgggagg taactttgtg atcttcattg ttttcaaate taaatcgact 240  
 tattattatc cattgtaatg ataagtctca atgggtgttta atatttgcag gatgtgcgaa 300  
 aaaagcacat gccatccaga aacaaaatat tgtccctcac atgttgtctc gtgagagtta 360  
 tgaatatctt gaaaacaaga tgat 384

<210> 13732  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13732

aaattgagtg gggagaaaat tttcactaat tatgattagt gaatttttagc tatggttcag 60  
 cccaccaatc caagatcaat tccaagattc tccactaagt gtgcttaggt gtcatgaggc 120  
 atgtaaagca tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggggtgtagc 180  
 aagcaaatga tcacctcccc ctctaataat taattggatt ggtcttctcc caattcaatt 240  
 aaatntattg ctcaacacac acatcaaata tggacttaat taacgtgaaa ttacaaaact 300  
 acccctaata cacaaactat agtct 325

<210> 13733  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13733

ctttgaaaa aatcttcaga aacaagtcac ttgttgaatt gtgacttttg gaaatgtatt 60  
 ttttgaaatc agtcactggg aatcgattac cactaaagtg taatcaatna cacttcaaca 120  
 gatgtgacta ttcattttga atcttgaaca taaaacgggt agaaactctg gtaatcgact 180  
 acaagtattg tgtaatcgat taccaagttt agaacactgt taaactatnt aaacataagt 240  
 tataactctt gaaattaaa 259

<210> 13734  
 <211> 415  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13734

cgaatacgct cttaatccgt agcacnccgc nnatagntat tctccnncna cncanagagg 60  
agaggggggtt tcactctttat tgtannanga ngacgggatg tgggcgttta ataccacttc 120  
ctcctctaata ggacgcgaga tgatgtgccc aagtgggggtc gcatgatctc gttttgtatg 180  
cacggagaca cgttcctctg ttcacaagag ttctttgtgg cgaagcggaa agaactctt 240  
acattaaaaa gcttcgattg gaccattatg aaattacttc ccttcacagg gctcaagttg 300  
ataggacaca taagtgaact cttctgaaga accggaaaag gggcctgacc catcaacaat 360  
tagttttaca cctccatttt ttttatatgc ggtgagcggg ctttggttgg tatcg 415

<210> 13735

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13735

nggggaaagg gagatgatgg cttgaacttg acacaagacg ccacggatcc ctgagtcctt 60  
gagcaccacc gatgtaactt tataccttgg ggaagcctaa aaggatcaaa tattatataa 120  
aaacctatctt caaagttaac ctttacctaa ataggtaaaa aaaaatcttt acctaatttg 180  
gacctacggg gaatttacac ttgaaaccaa atactacacc tgcgaaaatt cccaattcca 240  
cacttgaacc gttgaacttt ttcccactat cttgactggc tctagctttt ttacttagt 300  
agaattaccg gctaactctc ctttcattta ctttttttat ttgccttntt ggactgacct 360  
acactttctc tcgtcctttc tgttctatct cactttcacg tgccanattg tnttggttgg 420  
gtatntttta gaataattca taatttgatt cttag 455

<210> 13736

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13736

aggggaacggg cgtttttaggc tagtgccatc gaanactgag ancnttcgac nnnncnccgg 60

ngtatctcta anagcccacc tgcaggcatg caaccttgta tataggaatg gtngattggt 120  
 gaaactgcct gctttaatgg tggaccacaa aatggtacct gaagatatgt cacgggggtc 180  
 aggaaacctt gaggacgtca ggtgggggtgc tatggcccaa aaccaacctt gaccaatccc 240  
 gaccaacccc gggcatagtc ggtcaggag accctgtgat gtatctaagc aggcgagctc 300  
 cttgcagtca acagataaaa ggaaaacaga ccacaaagca nggatgcttg tggaggctgg 360  
 ccaactgtga attttgtgaa tatgtgagat attgcctctt gtaatcgatt accaagggtg 420  
 gggaatcgat tcaaggctta naaatgagac aggaggctaa atggtctctg gaatcgatac 480  
 cacgngtgta acga 494

<210> 13737  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 13737  
 aaaatggttg gcttctggtt ttatgtcaat acatcaaaat cttatgtttt acttgtgtca 60  
 tcatgtaatg cttcctctac tatagattcc atcaaacaga aaaaaaacac tagtatatga 120  
 gacctatata atcaccacat aaaccaaatt tttggctgct ggctttggcc cattccccac 180  
 atttgatctt ctatgatccc atctacaaat cttctccccg ccccccata gaataatta 240  
 a 241

<210> 13738  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13738

gacgcgaang anacggcgag atgaggcact ccatgacacg aggatcacan ggagaaaaga 60  
 gaccatatga attgctccag agcttccatt tgtcaatatc gagcgtctaa atatataatg 120  
 cgccttcata cgacctcga catagaagtt ctgaccttatt taaatgctca agagcttcca 180  
 ttggtcaatt tcgagcgtca cgatatatta tgcacctgaa tccgacctgc gaggacaac 240  
 atatgacca tttgaattgc ttcattgagca ttcattcggt caataattga gccgcaacga 300

atatatatgc aacctgaatc ggacctgcca gtgacacctt atgaccaatt tgatttgctc 360  
agaacttcca ttgatcaata ttcagccc 388

<210> 13739  
<211> 232  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13739

ataanatatc gagacgctcg aaattgaaaa tcggaagctc ttgagcaatt caaatgggtca 60  
taactttctaa ctcgaaggtc cgattgaggt gcataatata tcgagacgct cgaaattgaa 120  
gaatggaagc tcttgagcaa ttcaaattgt tataactttt cactccgagg tccgatacac 180  
gtgcataata tatcgagacg ctctaaattg aacaatggaa gctcatgagc aa 232

<210> 13740  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13740

agcttttttcg tatgtgctcc aaacanaagc gggcatgggtg gtttaataag aaacctaggg 60  
gaaattactg ttcattgctga agagactggt gcttcaaaga gtgcagttga gatggtcttg 120  
cgttggttctc acttggtata cagggatgtc ttttctaaaa gtgtacgtat tctatatccc 180  
atattaatgt cccctattta attaaatata tttttttttg tttgtcattc gaaacatctc 240  
tcatatattg ttttctcgta ngaccctctt ctaagaatat caagaatggg tgagagtggg 300  
cggttatattc ctatatgcaa gactgaagtt atcgacgaca atttaaattc caaatggaat 360  
catttgctc 369

<210> 13741  
<211> 265  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13741

cggatgcgat gaacggagag cttgctcgta gtgaaatgaa gtttgctga ttttgatggc 60

ggtttgagac ttgagagtgt acaatggaat taatggcaac ccacttatgg tagtaacttt 120  
 ctgcacctca caaattgctt tctgctccaa tgcgtaaaan aggtgaaaga aatcactaat 180  
 tttgtgggaa atttagttgg atgaagttga gaaaagaacc aataactatc tttgttttta 240  
 ttcataattta ttagttaatt gcaga 265

<210> 13742  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13742

acaaacgttc tcttgctcaa gactttctat taaccganaa aaatgcaccc atatacaatc 60  
 aaggcagctt cgttacctag attatttaca cgtacttcca aggtgtattt gttacttaca 120  
 tcacacacat ctccttggtt aaattcacat acatgcatac tcaaagcatt ttgggggtacc 180  
 aaaaattgca catgtgcaca tcttggtatt tctaatacct atacatacac aaacttcatg 240  
 atgaatcttg actatctaca caataaggtg ctacatttca tgctcttttc aagtttttgc 300  
 tacctaaggc cgcattgcaa ttcaagtata ttttccttgc ctggctaaaa ttgtattcaa 360  
 attaaaaagg atacattttt tttggtaatg tatcttcttt acatagcatg ccacatattt 420  
 atgtatata 429

<210> 13743  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13743

agtgggaggg gnnnnnagtt tgacgccttt ganccctga tgcactcgta nacctcaggg 60  
 cgaatacagc tcggacccgg gatcctctaa gtcgactgca gcatttatct tcccccaact 120  
 cgccaggcga gctaggtgct tctttanaaa caccgcctt ctgaggaaat tttctgggaa 180  
 ggcccaaatt gggccttggg tgctattatg caaccctat tttttactan atacattccc 240  
 ccttgctttt ttttgtgatt cttttccgta tgttaciaaac tttacgactt tctaacgatg 300  
 catgtttttt tccgtatggt accaaacctt acggactatg tgatcaaccc ctttttggtt 360

ttcgggatgt catggaactt taccgattgc gcacgaacac ttccttttaa tttcaccatg 420  
 tcaccgaact tcacagattg tgctacaatg ctttcttttg actttcggca tgtcacgaaa 480  
 cttcacgaat tgcctt 496

<210> 13744  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 13744

ctgctggtcg ggtcatggac atttgattat cacatcttgc actatatcat tgtaagaatt 60  
 atgatgcctc gttcttctaa tctagctcaa gcctctgagg aggatttgat tctgatgtgg 120  
 gatttcttga ccgatcgtca aatcgactgg gccatttga tttgtaccgc atgcataagg 180  
 cattgcggtc tagtgcacct ttaccctatc ctacagttaat cactttattt ctgcgtcatt 240  
 tcaatgtacc tcttgcttct tagcctttca ttcaagttaa atgaccttc tctattg 297

<210> 13745  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13745

agcttgtatt agtatacttc accttgctgc ggtggcactt aacctggctc taatcctggc 60  
 tgcacttgac ccaattgggg tttttcagtc ttaacctctt cctgaaccag ggatttctgc 120  
 ttctccaatg attgaaactt ctttggggtc ttcttttctt tccttgagac ctcttgatag 180  
 cttgtggctg attctgccgc tcgtaactta agcagcctca tctctttctt cagtgcagca 240  
 ttttccacct caaatctcgc gacatcaaca ttgggttcgtt ctacctgtgc acttgcttta 300  
 gacaggcatt ntccatctca gaaacttctt catagtgttt tcctctagag attgtttttc 360  
 tttnttaaga cgttcaactc atctttctct tgtctcaat 399

<210> 13746  
 <211> 375  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 13746

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aatttcatta ccatggtnng actatccata agtgtttcct tgggttaaagt ttacctttct 120  
aataccaatt tggaattcta actaaaaaac ttcaggaact tcaactagta atcaaaaaat 180  
ggtatccatc ctttgaacct gatggcaggt tcatattgga tgtaatggat ctttatTTTT 240  
ggggcnacaa aaggggaggc caattgggtc ttggtccttg tgaggcccag atcatgcagg 300  
tggaactaata tcccttccaa gtaaaagagt taccttacat attgttctat atctgtggcg 360  
atttctcata gcatg 375

<210> 13747  
<211> 287  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13747

agcttgtaat ctnattttat aggtttccgc anatcgggtc aatagctcaa ggtatgtact 60  
ctgtctaatac cagccaactt atagttgtat aactagata agaagtggag cgttcatatt 120  
tcgacatttc ggcgccctat tgttatgcag tcaatcctat ggattcattc attactgatg 180  
atcgcagaac tgctgtcta gccatattat ctctcaatgg aaggcatctt gtagtgcgc 240  
tctttacata aatgttacat agattgaatt ctgattctaa ttataat 287

<210> 13748  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13748

agcttttact aagttcatcc taccatcctc agactgatgg tcaaactgaa cggaccattc 60  
attccctgga ggaccttttg aggtcatgtg tcttaaagca naaggggaga gctttctttc 120  
attgatagag ttcacttaca acaacagtn tcaactctacc attggcatgg ctccctatga 180  
agctntgtat ggtagaaggt gtangacacc tctatgttgg ctaaagccct gagaagacct 240  
caccttatga cttgaagtgg tacaacaaac caccgagaag gtcaagttga tccaagaaag 300

gatgaagact gctcagagta ngtagaaaag ttatcaggat aagagganga aagacttgga 360  
attcgagggtg gtgatcatgt attcttgaga gtcactct 398

<210> 13749  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 13749

tatatatggc catatatata tatatatata tatatatata tatgtgcagg gagaaagata 60  
ccttggatat gcatgtatgt agcacacaaa atttcacaca atatatatat gtatgttttag 120  
gtagcaagat accttggata tgcatgtata tagcaaaaat atctcacaaa acatatatac 180  
gtatgttttag gtagcaagat atctgtgaca cacatgtata tadcacaata cctcacacaa 240  
atatacgtat g 251

<210> 13750  
<211> 512  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13750

nnnnnnngcg gagannnaag actgagngct agagannctn gcannancta nggngaacng 60  
agcgnngcac ccgaggatcc tctagagtca gaccggcagg tttgtatgct ctatatgnnc 120  
actagaacga gagtcaccag tgatcgctct ataatttaga tcaaagacca tatttgtgct 180  
aaacaaaata atgcaaagct gtacctttag aatagtacaa cactcacggtt ttccttgaaa 240  
atgcttttaa cacaatcact ttatcattac ggagcatatc actacaagta gtaagagtca 300  
ccaagacaag gtaaaaggta tcacaattga tatttgcagt acctgcataa cttcaactaa 360  
tggttttcgaa aactttatat attcaataaa tagacaaaaga taacttgggc tattatacag 420  
atcctataaa cagcctaaga atgtgaggat atattgtatt taattcactg tcacacaaaa 480  
naaaagctca ataatttgag cagaacgaca ag 512

<210> 13751  
<211> 355  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13751

cacaggcggtt tctatggggtt attctttaaatt taagactctg aagatatttg ttaacgttct 60  
tctcctcttt attttccttt atatcttttt gcatccgaac aatgcantta atagttttga 120  
agatgggtct gcaggcaacc tattagagta aaaaagtgtg ggtgtgaaca ttatgcaagc 180  
aaattatgta gttctcaata cgaaattcaa tcaactgtctt tagtttcgtg agtagtgtaa 240  
gttgtaaaga accgtcaagt gtattggatg gaagtcaagg tacgtattat atgcttggaa 300  
taanatcatc tcctacttan aagaatcatt catcaataac tcttgaacat tttga 355

<210> 13752

<211> 256

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13752

gggataaaaag gagtttggat ttacaacatg gtagaaataa agaaaattgc gatgatacta 60  
gaagaataca gagaagattt gggtttagga tattcttttt tctctttatt tcaactcata 120  
actagctatg ttatgggcct cgntgggttct ggatttcaca taggttattt cctgcaccta 180  
caagctactt cctgcactct ttttttggct ttaaaatgac cattctgaaa tgaaaattac 240  
attttggaat gattat 256

<210> 13753

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13753

agctnattat tttctctgaa gcaaaaccaa tagcgtanag aagaagaaag ttcggtaaag 60  
aaaggagacg agtttgccaa accttacatc ttcacctcta agaagcacac caaagcgata 120  
gacatcaaca gtgttgagg agtcacaccg agcagctagg tcgactttga cccgaggaaa 180  
gataaagaag atggaaggcc agcaccgatc gaagagttat gtttattcca actcgaaaaa 240  
atcctcacca actcaccgaa tagggcagaa acttgacaaa catcttctga aggagatcga 300

ggaagtgttg aaacagaaca ctgattttnt tgcttagaat gtcgctgaca tgctcgacat 360  
agaaccaat ttcata 376

<210> 13754  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13754

tggccaatta gagatcaatg tcaatattat tgacaatgta tatcatcaac aatacaatta 60  
ttataactcc gcanatgttg atctacaaat aatgtctcac cagtcacat gttttaccat 120  
ttgtcattct gtttataatc tcacatggta cactagtcac gatgtaggga ttatttctcc 180  
tgaacacgat cctgcacatc tacttttaca gtttagttac caactcgttt atctctttaa 240  
atcaaaatan attgcactaa gtcaaaacac tataaaaaaa ttgcaacatg aaatacagaa 300  
atacccgata aactcatgca tattgaagaa catg 334

<210> 13755  
<211> 279  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13755

acatgttgag aattacgtca tcttccgcgc tctctttatc tgtcatactg actntngagt 60  
ctcgccgacg gccgaatata cccgagtggt tatccgtata aactttatga tgtctataag 120  
acgaatagcc tgatagcacg cagagactaa cgtcgtcttc tgccgcccttc gtcgatcgcg 180  
gacgacaagc ccgttgacac gtggagattt acgttatctt ccgcgctcac acgatctgtc 240  
atactgactt atgagtcgcg ctgacgggcg aaaataccc 279

<210> 13756  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13756

attgaacaag cggaagctct gcgtgtataa tcnagtgttt tttaaattntc acacagatgt 60  
 ccgatgcggg gaaataatat atcgagacgc acgaaattga acaacggaag ctctcgagaa 120  
 atttgaatgg tcataacatt tcaactcgat gtctgatccg gggacataat ttatcgagac 180  
 gctcgaaatt gaacaaccga agctctcgac acattagaat ggctcgtaact nttcacgcga 240  
 atgttcgatt ctgggacata actcatctag acgctcgaaa ttgaacaacg gaagctctcg 300  
 agaaattcga atggtcataa gttttcacac cgatgttcga ttcggggaca taatatatca 360  
 agacgctcga aatttgacac cggaagcttt cgagaaaatc gat 403

<210> 13757  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13757

catnaaaggg ggcaaaacat atttcaaaga gtgatcattt aacaaagaaa taataaccca 60  
 actgagtaaa ttctgcttac agcggcactt tcctaccagt tgagtgcagc gaatgggtcc 120  
 ttgtaaattt cattatatat cacttatcag atatagccac tccacaaatg atccaacata 180  
 taataccan aagcatacag aacgaacatg ataaagaaga gcatgtgtaa atncatagna 240  
 gattataggt agtgcataat tcttatacta ttagttacaa canacttcat taatgactaa 300  
 gtactcagaa ctcttgagaa aaagaaaaca aatgttctag ggacaatcta atcaatatat 360  
 gacaatcagc attaacag 378

<210> 13758  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13758

aggggnnnac ggaggganaa aactgatcct tacgagnnct accgcactnc tgagaangtt 60  
 cgccgaggat cctctgaagn caacctgaag gcttgcaacc tttatttaat ggtttgtgga 120  
 gaccactag aggaaccact gataaacctg tgaagtcacc accgtgaggt accataacct 180  
 ttttttcctt aattttaatc tcggacttaa taatggagga tgaggtaatg ggttctttaa 240

acaataatgc catatgcatt tcaatgtaat taacttcatg accaatctta taaactgaca 300  
taggtccata ggtgaaaatt atgcttaatt agctttatth acttacgtga tgagcctgat 360  
atcaggagca ccaaattgaa tgagatgacc attgatgatg agaaatttta tgtacttgtn 420  
tgacattaaa gtgtattacc atcatttctc aataactatc gcaagttaa 469

<210> 13759  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13759

taagcttatc accatcggaa gccatggata aaagcttgaa ggtaggagaa aatgagtaga 60  
gggagaggga aagaaggga tgaaatnttg agagagaaaa gagggagaat gaggtctgaa 120  
ctttgaagtc taatttctca naaataaaag ttgcaaaata cacatacaag gtctctatth 180  
atagcataag tgatcataca aattagaagg aaatttgaa ttctattcaa atttcacttg 240  
aatttgaatn tgaatttatg gagccaaatt tggagccaaa atttcactaa ttatgattag 300  
agaatttcat ctatggttca acccataat ccaagatcaa atccaagatt ctccactaac 360  
tgtgcttang tgatcatgagg catgtaaagc atg 393

<210> 13760  
<211> 216  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13760

ttaaagcaaa aaccaagggtt aggagttcca atacgatatt taaagattct cttatcaaca 60  
attaagtcaa attctcttgg ttnttttctt gaaacctatc acacatgcat acactaaaca 120  
tgatattagg tctagacaca atgagatata ggagtaatcc tatcatagct ctatattggg 180  
taccttcttt gattcctcat ccattccaag atatgt 216

<210> 13761  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 13761

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cgcttaacct ggggctagtg gcctnngana tcganagnna tcgaacnngc cncggggatc 60
cttagagtcg acctgcggtc tgcaagcttt antagtgaac ccnggngcgg ccatctcgcg 120
agagtcctct cactgaggtg aggtggaccc aggtcctcca tatgaaaata ataattggatg 180
ctcataatca gaatatccaa agtacccttc aataaaaggc tcaaatgct caaatgcac 240
agaatgacct ggatgcacac tatctatgac aggttctatc tacttcaaga tcaaaggggtt 300
gtaaacacct gtattgccct agacatgcac tatatgcagc aatagagtgg ttctcaacaa 360
gccctacaa tggggtaaac tacactatac tcgaacatat caaatgagca aattttgtga 420
ggacacccta aatcatgata gatagccaca aatttcaaca aaattcn 467
```

<210> 13762  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13762

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cctccgnaat ggccaaacca tganntcgga atagtaaata cncggnggan ggggagtcaa 60
gagttttatn tttgggtaaa actagggcat gaaggtcctt atctcttggc taatcaaata 120
ttaaagggtg ttcgccatca gacttaattg agctttcctc ttcttcttcc tcatcagacg 180
aggtttatcc agatcctccc caagtctcat gagtcatttc ttatccttgg acttgattac 240
ttcttcttgt cctttggatt ttccagatat ggacattcag atctgaagtg tccgatttct 300
gctctctagc atatgatgaa ctcttctcct taaacacctg taagaagaat tcttcacatc 360
tttacatctt ctgggatgaa gagagttctc ttctcctcat cttactttaa ttcattctag 420
atgatcttcc tgcttan 437
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<210> 13763  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13763

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agcttatgga gcttactgta ggacacgaca agtctcaaac gacaatatgg ccttccttaa 60
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attccgattt gatttctctg caatgcgagc agcaaaacca ggaggaagtg cagtccttct 120  
 ttctaccaat gaattctaaa acttgaacaa tctgccatat agatntccaa agattcaata 180  
 gagatcaata ttcaattcag agaatgggta agctaaacat gatcactata tataatatat 240  
 aataacgtcc atttgaaatg gtatatatttg gttggttgc ataatatgat aaaccttgga 300  
 tgccattggt atacccttt 319

<210> 13764  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13764

ttcttctttc tgccttatca gagctagata aagcatcact tgaatgtgat ctttagtta 60  
 ccacaacatc aagaaccttc ttttgacta aagaagcttc atttgaggta tcagcctact 120  
 tagatgcagg tttaagttga catggttgaa caacctcatc atccttggtt gcattgaact 180  
 tactagagaa tgatgctngc ttatcaactt catgcattgc accagagata atgagatcaa 240  
 caacgacctt attaatcttg gcgatatc 268

<210> 13765  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13765

agcttattga catccgtgac tngatcttaa gcgaagatgt tcgcaagaga gatntangag 60  
 aatcttccaa tcatgtntcc anttcagcat ttgatactga aggcanggga agtactaccc 120  
 aaaatgatgc aatcctaccc cgcaagggca ttggctagaa gactccaagt agattgggct 180  
 agagatccaa ggaaaggccc tagggttctc atgagcctta nggtagatnt cgagcccatg 240  
 ggctaagtat gagcccgctt atctttgtaa tattagatan ggtattcctt cgtctagccc 300  
 tgtatttttg ctattctagt agtat 325

<210> 13766  
 <211> 323



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13766

agcgcggggtc tgagagacga aagttatgtg gtcgttatat acgaagatga tgnccgagt 60  
acattggatn tggtagcacc atgccctcct gatttccagc tgggaaattg gcgagtggag 120  
gaacgccctg acatttacgc agcgagcata atgtaaacct ttacggtttt aaaagctcta 180  
tagtagggcc taggcttttag agtttttcct tttgttaaag ctgtgtgtct tttgtctttg 240  
aatttataat acaaggacct ttcttcatct gttcctacgt ctctacccat tctcattcat 300  
ttgcatgttt acttcttttt cta 323

<210> 13767  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 13767

cctatatccg atagccgatg ggtgagtcct gccaggtag tccccaaaga gactggcctc 60  
acagtgatca gacatgagaa tgaggagctg attcctactg cgggtgcagaa cagttggaga 120  
gtctgcattg actataggag gcctgaccag agcaccaaaa atgaccattt tcccctgcca 180  
tccattgacc agatgcttga acgcctggca ggtaaattccc actactattt acatgatggg 240  
ttttctagtt atatgcaa atactattgct gctgacgac atgaaaagac cacattcacc 300  
tgccccctcg gcaatcatgc ttataggagg atgcctctcg gcctgtgcaa tgccctggta 360  
cattccagcg gtgcatgg 378

<210> 13768  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 13768

atccaatatc atgctcaata tgagctgccc tgacatactc tatatgcatg ggaccatcca 60  
agaaaaccta acgtgtccac aacactttac ttagaaacta gcataagtgt gaggaccctg 120  
tctgcacatg cactcccccg tcccctcagc agatacctga tctaaggagt tctaacaatg 180

aatgccctaa acatattctc tatgagaaat acagtcttat gacaagtata ctattctgta 240  
 ttgaatataa acatgcacat aaatgcctga tgtgatataa agatc 285

<210> 13769  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13769

agggggacgg gngnnnnngg tttagtccta actganncct tgatncttac ngnananctn 60  
 ccggnnatTT gnaangggccc cccgngatc ctntanaggc gacttgcagg cntgctttct 120  
 ttactaatng ngaatatgng agagaggaaa tgtgcanacg gtgaaggaag aggaagtaag 180  
 gacactacca atcaccaatt taaagggctc cacaagagcc caaaaggtgc gaagataaat 240  
 ataaataaac gatatatata tatatatata tatatatata tatatatata tatatatata 300  
 tatatatata tatataaaat ttctctaact atgttttttc atatacatca tgccacttat 360  
 catatattca ctcccatcta tgctatntct ctcaataggc attggataga atttagtatt 420  
 caccaaactt tccctatttt tgtataaaaa acacacgggc atattacagt gttttatatt 480  
 gtacagttct caagagaaag caac 504

<210> 13770  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13770

atgctcgga tgaatatga aatgagatgc cggagaaaca ccctattcta ttaaccatgc 60  
 tttaggtccc tgttcaatat tttgttttaa tgaacgggtt atgacccaac acggaggctc 120  
 gggggcccta cacatgaaac ttaaaatgta gtgtgaagtt tcacgcttnn cccttttttg 180  
 ttttgttttg tcgaggacaa cgcgaggatg nagcaacatg aaaacaaatg gtatgcaatt 240  
 ttgcagatca aaaagtttgt tgaacgcata tgcgatgatga tgccatgact catggcaaat 300  
 gtgaggctgg aatatgataa ccgacaaatg caggatatgt ccattatgat gttatgaaga 360  
 gatgcctatg ccatgn 376

<210> 13771  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 13771

tgaggtcctt caatggtgat tttcaaccat ggatatgtag tggaaaataa aggagaagag 60  
 gtgagaggag ggcgccatcca cttgggaata agccatggaa ggaggagctt caccaccaag 120  
 agagtgcctt gataagaagc ttaaagagaa aacttcaatg gaggacaaga atgagagaca 180  
 gagagaga 188

<210> 13772  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13772

ttagcttata tcatgtcaga caccctaata tcagcagttg caaacaatca cagtttactt 60  
 ggtgccaaact taaagtggaa ttaaacaagg aatatactta aagtgcataa aaaagttaaa 120  
 taatgtctcaa aataggcaat cctagcttaa atcttaccct ttccttgatg tcacccaaag 180  
 ttggcaagta cagcttatag aattcctctc tgaatgcaac cacaaaccta aataaagttt 240  
 agaaaccagc tagaataaga caattagaat ctgtntgatt ttgaataaat ttaagggaca 300  
 acangataca tctactatat tatagtatct tcacttttaa aggactaaag acgaattatt 360  
 gaccataatt gatataattat catttgtata tcactaact 399

<210> 13773  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13773

aaacaccgcc ctgtgaatca tattgttgca aaaaatcagc aacaactctt gtagcanaaa 60  
 tcccgaaaag gtatttattt gtaaaaaaat gaaaaagaac agaagagaaa gagaaagaaa 120  
 tcagcaccaa ctcttgtaga acaaatggca gaagataatt taaaaaaaat gagaaagaag 180

agagtagtaa ccttaagttg gcatcgacgg aggagcccc gaagacgatc accgtagaaa 240  
tcttgatttt tgatatcgaa aacattcaga tgacaaaaaa t 281

<210> 13774  
<211> 235  
<212> DNA  
<213> Glycine max

<400> 13774

aaacggaaaa attaagagag aaaaattaca aattcctata taatttaacc ctcaaaatat 60  
actcctaatt agaagttatc aggggggtgca tcttgatttt gttggaccct aaataagagt 120  
ctaggaagct caacaactgg aagccaaatg cgttgtccat aggcttgtcg atgctatgca 180  
gaggatacgt atctttggga cacactttgt taaggatgat gtagtcagtg caaat 235

<210> 13775  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13775

gtttagaacc aatatagttc attagaccat attaccacag accttataat agtttaccct 60  
ttgacaaagg gattatggcc caaaacattt atagaacatg ttaaaagtat gagcattatt 120  
ggtattgatg atcattaagt gtaatttate ttatgccatt tagtgacact ctgagctcat 180  
ttatgatatg gttctgagta cttgttctct atgtttgcat gcataatntgt attagaataa 240  
tgттаатagg ttttgatttg aataaagaca ttatactgac caattatgta ctctaacta 300  
atgggcata 309

<210> 13776  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13776

gaaattattg aaaaaatttg gttccgtgaa gaaaatccaa gccgaggcac ttccgtaacg 60  
tttccgtaac gtttccgtgg gtgatttcgc gaaagttnt gaccgttctt cgacgttctt 120

cattcgttct tcatcgntct tcggtcttca actggtaagt tccctagatc gaacttttca 180  
attcattcta tgcaccctta gtggctctca ttgttnttac gtgctctcat ttacatttca 240  
tttattttcc gtacccctt ttgacgtgct taagccattt atttaaagtc atttctcgct 300  
taatcta 307

<210> 13777  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13777

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tgagttcact attgctaccc catagagctc cgcgaaatat attccggcca tactcttctt 120  
tgcgagcnct cttggtctct tgttcaacgg ctcttgcggt aattgcattc tctttccggt 180  
acccggcaca ctc 193

<210> 13778  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13778

caaatccctt gggataaagg tagtgttgcc atgttttcaa agcccgtact aaagcataca 60  
actccttatc ataagttgaa tagttaaagg taggaccact taacttttca ctaaaataag 120  
caattggatg gccttcttgc atcaacacag ccccaatccc aacatttgaa gcatcacact 180  
caatttcaaa agatttttga aagtttggca acgcaagtat gggggcatta gttagctntt 240  
gcttaagaac attgaaagct tcttcttgtt tctctcccca ttgaaacca acatttttct 300  
tgagcacttc attgagaggt gctgccaatg tgctaaaatc cgtctataaa aacttgc 357

<210> 13779  
<211> 186  
<212> DNA  
<213> Glycine max

<400> 13779

tatttatgac ctctccagca acaggtacaa tcccggatgg aggaatcatc ctaaccttag 60  
atggttgaat ccttcacaac agcagcagca acaacaacat acttattttc aaaatgctgc 120  
tggcccaagc ataccatacg ttctttcacc atccagcagc aacaggccca aaaacagcaa 180  
acagtt 186

<210> 13780  
<211> 272  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13780

caaatatgca tgtgaattat gaagcatcaa caacactcaa gccgaagata ttgagcaagc 60  
aatcagtggg gcaaaacaca ccataagatg atgatgatgg atggctcana ttctcacaaa 120  
agtgaacata tcactttcaa attgagctgt caaaactatc atgacatggt aacgaataac 180  
aatgatttca gatcacaaaa tgtgaagaga cttgtatttg tagaacgatt acccatttct 240  
taaacacatc ctataattta aagaaaaata tg 272

<210> 13781  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 13781

aggccctgat caattctggc aattgcacca tttgtaagtt ttgcttcttt tgatgcttga 60  
acatcattcc atttttccctt gcaacattca tgaacagcat gcatcatctc gtgatgagaa 120  
gtatacgcta cgcagatcaa aagaactctc tggttgttgc gagcagtaac tctcattgcc 180  
ttttgcacag aacatgagaa cattaaattc aaccttatgg ccataacctt cttacatgta 240  
tctcttcttt gcataccttt gattcccac ccatgatgaaa gcaatatgac ttggcatagg 300  
aaccaccgat aaaatgggca acatgcatct tcttatataa caatataaa 349

<210> 13782  
<211> 517  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13782

acacgctcgt tganactttt gtatangcga aacacagaan acnacnccng cgcgccagtc 60  
ngacgggagg acaggtgaag gaganncttt ttttatctgc accggcnnga cacaagcggg 120  
ctaataatca tagaaccgat cagaatctgg aaaaccctgc ttcttcacga gtcaatgaaa 180  
attgctttat attttaattc tgcgtttata aaacgaagga tcaacctaca ctattgagtt 240  
gtgtatttct gaaacattct ttttctagtt tagtcatgag atagtcccta aaacatctca 300  
tatcttatat aattatcact ctattaccgg cgtggccagg attcaccctc tgaaccata 360  
ccataacctg gttcaatgac cttttgagtg tttaaaacat tgggtgagta ctctggttgg 420  
ccttcctcat aatgaattgg gtaatgttgt ggcgttgctt atgagttaca aaccacaatt 480  
taaccattca ggcttttact ctgggttgtc caatccg 517

<210> 13783

<211> 390

<212> DNA

<213> Glycine max

<400> 13783

agctttcatt ataataaact aagcaataaa ctacttcata ttttccctgt gtgtgtgggt 60  
gtcgtgcaat cccttctaca acttgccatg caacattgcc ttgatcaaac ccaagagcaa 120  
gccctatggc caatctatca ataataacag aagcaacaaa aataattaga ttcatgataa 180  
ttttcttgta acctaaatat gaaataaaga aataattaat gatataattg atcgggtaat 240  
catgacttaa ttttttaatt atcaagattt atcttattaa agtaattaat aagagttcca 300  
aattgaaaat aatagtagtt attgaatact accaatgagg attccaacat gottgaactt 360  
atgaaattgt attattgaga cacacactct 390

<210> 13784

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13784

acataatact cagtagtcct tgctacaagg gaaaccttcg aaaaagaaac canactgnct 60  
tacatattcg ataaaaaac agaccaaata tttttttcag gggaaagacc acaaaccagg 120

attggagtta gctgcccctc taggtcaaga agacctttgg caaaagcagc tgcagacatc 180  
 tgtttaatat gggatcatgaa aaaatggctc acatatgatg ccaaaggaca aattaggctt 240  
 ataaacaatg cctagacatc aaacacttcc aaaatgtata aaaatgtagc aaccaataat 300  
 gaaaaccact tagccttctt atgattaagg tgagcacaac tttaggccat acctgcacac 360  
 gacctcatc agagctgtaa atcttgagat catgacggta tgtactatgg aggcgaagaa 420  
 gccctgtacc ttcttcttgc atttaaacca cacaaaaatt tgcctttata catactac 478

<210> 13785  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13785

agctntttta atcagaataa tccaaaaatg tcaaagaatt gtgtgttgaa aaagcataac 60  
 aagactttct gtgattgggt taaagataca atctttgcag atgagaatgc ttcaaaaaca 120  
 ttaagaaagc tagcagatgg gcctaaaaga aatgttataa cttggcaagg atacgacata 180  
 aacaaatatt cattntacac aaaagcataa gatgacaaaa gtacaatgca gaatatccgg 240  
 gtcaccctaa gggctgaatc ttaacacttt gcaagtgtga atgacgcca ttctatgtt 300  
 gcttccattc cttactttgg gttcatcgaa gaaactttgg agctcaacta tgtgaaattt 360  
 a 361

<210> 13786  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13786

ngagacatat agattgaatc ctagtgagct ctaggactta gnttaatatc tgtcaactgg 60  
 tcatgagaat tgatgaaccc agtgataatc tccttggaca ataatttctc tcgaatgaaa 120  
 tgataatcaa tctctatgtg tttagtcttt tcatgaaaga ctggatatga ggcaatgtga 180  
 agagctgcct gattatcaca gtataacttc atttgcacca cttcacaaaa ttccaactct 240  
 tggagaaatt gtttaatcca cataagttca catgtaacca tagccataga tcgatattca 300



gcctctgcac tagatcgagc aacaacagt

329

<210> 13787

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13787

gagagaatga tgacttagta ctaccggcga antcagctcg ggcccgggag actctataga 60  
cgacctgcgc gcggtgcgcg gctatgtgag gtctcatcag agacgcgggc ctctgtgcgc 120  
acgtgatacg taccatcatag tctacaagc ttgagattag gagatgtgga ccggagaaac 180  
gctctgcatt tgtcgatcac cacgaagtgg cacctaaaga catgtcacat gaggcaagaa 240  
ggcttgtgga gggggtgagg ggcgctactg ccacaaacgg tcttgtacga tcccgacgca 300  
accctgtcat taccagaaac tgataacgag tgtttgatat atccagttag catcctgcga 360  
ggcgcgggac cctaggggaa atgacgacaa ccccccgcag cttgttgtgg ctgggcaact 420  
tgtattcttt ggaacaacac gactgtcgcg cttaagaaaa 460

<210> 13788

<211> 501

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13788

agcgattatt atactttgta nancngccga ccaagaaact cagccgtggc ggcataaaag 60  
cgggggtccaa ggagccccac attttttgtc cacngncacn ccacncggcg gaacttgaga 120  
agccaaccga aatataatcc aaatgagcta aaacatttat gcaccgtcaa ctaaaactat 180  
ataacaaatc accttgctaa tataatgcac agtcaaaaac actaaccgca attctttatt 240  
aactcacccc catgatatat acataattat aagagaatat gactcctcgt taatagagca 300  
tctctttatc actccttaca catgacgcaa ccgcgttgtg actatactag tcagaagtca 360  
aagcgacacc gaatgatgat gacgatctat atttgacgac aaatcattcg ctcccttact 420  
ctctcaaagg ccggagtcta ccaaggggtcc aactaaaaca ctcatgacat ttgatcctgg 480  
caccaatact caggccgtac g 501

<210> 13789  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 13789

ggtggatgaa aaacaaggag agaatcttcg tgatggatac ggacaaatat ctgtctgaaa 60  
 tttctgggct gagtgcagag agagaatact tctttttggt tttaaataaa gggctctcctc 120  
 tttttctatt attttatata agctatgcca catgtcccca tttgaatgga actataaggg 180  
 cccactttct ctttgattgt gaccattct catccgcaa aattga 226

<210> 13790  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 13790

tgccgctccc gagtacgata gccggcgttt taagagcgct gagcaccagc agcatttcag 60  
 agccatcaag ggatggctct tccaccgaga gagacgcgtc cagctcaagg acgacgagta 120  
 cacagattct cgagttttac gccaatgctt ggcctacaga ggagggcgta cgggacctcc 180  
 agtcatgggt aaggggccag tggattcctt ttgatgcaga cgccctcagt gtgacatcct 240  
 tgaaatttct acctgagatt tttggagacg atgtatttgg aattattata tataatatct 300  
 gtaaggatta ttcagc 316

<210> 13791  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<400> 13791

atgcagcagc ttttttctat gcgggagcgc ctctagttca acacccgctc agcctaagca 60  
 ctccccacag gaagctccca agttccaact ccgaacgcga ctctaccggc cggtaatcc 120  
 aacacgacaa ggaatttccc ttcgaggcgc ttgccggaat tcaccccgct cccaatgaca 180  
 tacgaagatc ttctaccatc cctcatc 207

<210> 13792  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 13792

cctggagtaa tgggttattc aatcgaattt acctgtactc gtcctccttg ggattccttg 60  
 ctacatttcc aacatacact aaaattgtct gaaaggccct tctgactctg gcatcctcac 120  
 cctatacaga cattttaact tgatctgatg aacatttgac ggataaacga agacccaacg 180  
 attgtaatta tcactcttat cagaaaagta acgtcacaat tctattacca ctggacagga 240  
 aaataatata cgtgagctct tatactt 267

<210> 13793  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 13793

agcttggtgt gcaccatcgc ccgaccgcca cctagtacca catgtgatgg gtaccccata 60  
 atcctacaag cttgagatga ggaagtgttg aagggtgaaa cttcctgctt ttattgttga 120  
 ccacagagtg gtacctggag atatgtcgcg ggggtcagga gacctggggg acgtcagggtg 180  
 ggggtgctatt gcccaaaacc aagcttgacc aatcccgcacc caacaccggc atagtcgggtc 240  
 agtgagaacc tgtgatgtac cttagcaagc gagctcctgg cagtcaac 288

<210> 13794  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13794

tctntgagan aacttccttg agaagctaga gcttatctac tcacaccctt ctcataacta 60  
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120  
 acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
 cacccttat aatagctaag ctcaccccca tgacaaanaa catgaaaata ataaaaaaaa 240  
 agtccttatt acaaagacaa ctcanaatgc cccgaaatac aaggctaaaa ccctatacta 300

ctagaatggc caaaatacaa ggcctagacg aagganaaac ctattctaatt atttacaag 360  
 ataagcgggc tcatacttag cccatgggct cgagatctac cctaaggctc atgagaaccc 420  
 tanggcctnt ccttgatct ctagccaat ctact 455

<210> 13795  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 13795

tatctaacgc ttttaaccta tgacttggtg caaacctcct tgcccgggtt gaatttggtc 60  
 ccatgccttg ctaaagtgga gacaacaagc tgggtgccaaa tcaaaacttc cgatatctca 120  
 tggatggatg catgaaggaa tgcatataac acagatgcaa tctaagaatg cgggggtccg 180  
 gggaattcgt ccccttctta gacacaacgt ctaggggtag caaagtgcc caacg 235

<210> 13796  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13796

cggttcccaa aaatctagt cttcaaaatg ggtagtcac cttgcagccc ataggtcgta 60  
 ctctcacca tcaaaaactg gtggtggtat tatgtgtgtn gtgtctgctt ccattatggt 120  
 ttctctcaac tcacagatcc ctcaagatga tgactctgat accaatttgt tgaatattag 180  
 atcaaaaaca gagaagagca catatatnta tgaaggatac atagttgtta ttcatttgct 240  
 cttggttaga gttaaataa caaaacnaaa aatccctagg catgactaaa acagtttcta 300  
 gtctgataaa aaacaatatc agaactccta caaa 334

<210> 13797  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 13797

ctccttcttc catggctaatt tccttagtgg atggtacctc cctcttctc ttctccttg 60  
 ccttcggttg catctccatg gtgaaaaatc accgttgaag gacctcattg aaactcaaag 120

atccatcctc catagaagct ccacaagcaa gcttccatca agtggatatca gagcacaaga 180  
gcttcaagta ggtgctcctt aaacctccat taaatttttg ctttaccttc tctttcattg 240  
gtgtttcttc atttttctcc atgtatctcc tcacatgtct tgtgctaaat gtttttaaca 300  
tgattc 306

<210> 13798  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13798

ttaattnctt gcatggctta acatgaaata tcaaatatat tgattggcgt aataaaagtta 60  
atattattgta tagcttaaca tgacttctta tgctagattt gtgtgtatta tttggaatta 120  
ttgtatttcc tttatgtttt tgtgtcaagg ttaatttctt caattgtctc atttttatta 180  
atcagagtcg tttccccctc tttagggtgca cactacaatg ggaagccaaa tatctattct 240  
tatgagggag caactgtaaa cgatctaaac tgtaagtact aactactaat cctttntggt 300  
gtagtgattn tgatactaga atgggcttaa cttgttaaag tgactctagc atgtaagatg 360  
aataaanaaa tagaaattgc taggtgacat tc 392

<210> 13799  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 13799

agtgtacac agctgggaat gacagaaagc tcgccgttca acattctctc tctaactccg 60  
attccgatcc cactctatc ttcgatgacg agctcaaact cgtgcgtatt cactctcgtc 120  
ggttaattta attcaatgta atttggaaaa taaataatga cttgattgcg gttttctatg 180  
aatggaatga atcactatgc ttggtgatat atttaagtgg agaatgcgtc gaggaagaaa 240  
ttcaagtctt acagggcgtg gcatcataga aaatgggtgc tcaacaaggg gcgttcgtcc 300  
atagacaacg aaatgcg 317

<210> 13800

<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13800

tctataagca cggaaaagag gctagaacca cctgttatc acataataga gctaattggaa 60  
 aaagaaatat ccttgacaat tgttgcat tctctgaact tctaaattgt cgtatgataa 120  
 attgattcac tctggattac agaagtttat aggctcggct ttcaaacttc taatctttcc 180  
 tctcatcaca ttgatatcat ctttacagac ctgagtgtgt gtaaactgt tttagatgga 240  
 tattntatgg gctgaatgac agtgaagtat gaatctttta ctgtatgtgc tatactgctt 300  
 ttaaagcatg gttttgaatt atgggtggaga tatatttcat tgaatcacat ctgactacgt 360  
 acctcattga atcaactaga tgtgtctaca ctgaaatcct catacctttt caa 413

<210> 13801  
 <211> 613  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13801

ngggccttata tggggnaaag gtttcanagn nnactnntgc tganagcnca tannnanaac 60  
 ataccagcan gctgggcant ngcgctcgtc atggtcagac cttctatgat agagtcgcng 120  
 acgngtactn cagtagcnnt cgacatntcg gccccgtatt agtcgaggtc ggtngtgnac 180  
 canatntcac atggagcccc gtctgttctt acanaccgt cgtagacctg gnnngaaaac 240  
 ctctggcgat tacgccaacc ttaactcgcg cttagcagtc acgatcccc ttttcgccaa 300  
 gctgagcgta agtagcgata gaggggcccg caccgagtcg cccttcccaa cagttgcgca 360  
 gcctgaatgg cgaatggcgc ctgatgcggt attttctcct tacgcatctg tgcggtattt 420  
 cacaccgat atggtgact ctcagtacaa tctgctctga tgccgcatan gtaagccagc 480  
 cccgacacc agccacacc gctgacgca acctcttggt gcggaaacaa tatatactta 540  
 gtaaataaga cggatcggaa cgtctatacg taggggtccc gcctcccgtc tgctatgcac 600  
 ggtgagaaaa ccg 613

<210> 13802

<211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13802

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agctntatct ttactactaag taagttgcc actcaattgc gtgcaagtca acctttacct 60
tcatctgttt tgcaggttac aggctgcaca ctttgtggtg gagctcatgg gtcagcttgt 120
gtattccac tgacgaaaca tttcatgaag ttaattacat gggaaaccag cctagacaaa 180
attttaatgc acgtggattt tctggatttc aacatggcca atcttaccag caatagaatc 240
aatggagaac tcaccctggt aatcaattca ataaagacca cgggtgggtac ctgacatgcc 300
acagcaacaa tggcctaact tatctgagag aacaacaaaa c 341
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<210> 13803  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13803

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tcatatatgt gtaatcgatt acacagtgc aattttgaat tcaaatttta atagctgttg 120
caaatcagtt ttggccactg gtaatcaatt acatcctctg gtaatcgatt accagagatt 180
aaattttcttg taaaagactt tttaacttaa atttcttggc caaacctttt gctacttcaa 240
ttggaattcc ctctctatct aatataccct ttctaagact cttaaagactg tcttgatcat 300
tcatcttgaa taaagctttg agacgcatgt gatcctttgg catcatcaaa acatcagctt 360
gatcctttgt ctacacatgt gatcctttgg catcatcaaa acatcagctt gatcctttgt 420
ctacaatctc ccnctttntg atgatgacaa tctganatc aagacaagct atatgcaaga 480
tga 483
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<210> 13804  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 13804

agctttatatt ctttaatat gaacttatat cctaattgtca cattctatca gagggttggtg 60  
 ttctgtgtgc ctctagcatg aggttggttca tagtcatcca cctattcatc tgctcccccg 120  
 aacacatagt tcaagatcat cacaggatcc aaacacaaac aacacgcaag gagggttggtt 180  
 tcacattcct aacctatgaa gagaaacaag ataacatgta cgtgtaaata tcatataaaa 240  
 agatacaact tacttttagca tcaactcacgt tatttcacca ctttggtcgca taatattacc 300  
 ctgcgcacacc acacatttca tttattttca caacat 336

<210> 13805  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 13805  
 gacacataat actcagctta tataaccttt accatgatag agataactgg tggattggtg 60  
 catcaattgt agtgggttctc tgcctattat ggggtggcat agaggatgta agctttcata 120  
 gcaaagggac cactactcaat cttgcaactc ttctgttggtc tgggtggtctt tatgggttact 180  
 gctacttttg acatgctgtg ttcccaaaca tttatacatc catgacaaat ccaaaccaat 240  
 ttccctggaa tcctcttagc atggtaaagt acttttagct ataacttaac tcagcttcca 300  
 ctagtccact cactaaatat taaatctcct caagtctgtg acaaattgca atttaccat 360  
 atagtcaaaa gatataatta tttggcttac gtcaac 396

<210> 13806  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13806

gctgtgcttg tcaaataatn gngaaagaca agtgaaagac ccgataaata cctacaaaat 60  
 agttcacggg aagggtctcac aactattctc ctcttgcatg gaatgataca agtagaaatc 120  
 cttaataaag aggtgtacat catagagata ttccaagtct aacatccacc aactttgaaa 180  
 caaaactcaa gtgagatgaa aaaatattat g 211

<210> 13807  
 <211> 325



<212> DNA  
<213> Glycine max

<400> 13807

tgccagtcac tgaggaggcg tgtggaaatc aaatgactga actacacgag tccaagttaa 60  
aggaggcaaa tggactagaa catttgatgg taaagcctta aaggcttttag atggagtgtg 120  
ctcatagtca aaatgcgttc agatggatgc ttcaatagat atggtttcct ttaccactcg 180  
ttcagtgaat aagacttttag agaacggaga aagcggtgta tgattaccga ggatgaagga 240  
cagagggaaa cactatgcat ccatcaatgg gtcccttgta gttttccttc tgaacctatc 300  
aaggtgttat aaacatggag gtgga 325

<210> 13808  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 13808

aataatattt ttattcctaa atactagaaa catagactct ttcaaata ttaattagac 60  
atztatagaa gaaacaaata gatgcatttt ttaaaatgat tttccataat tataaatgta 120  
cacttacaca ttacagatat cttattatta tctttaattc ctgtgtagcg cactttgtac 180  
tatcacatta tattacctat tatacataca cttctctttc ttttttctgt ttgggaccc 240  
aagtgtgaac taagatgaca tgtagtattt ttcagtattt ctgtcataat tgtaagtgga 300  
ccgaattttt ctacatggat ttaaatacac t 331

<210> 13809  
<211> 290  
<212> DNA  
<213> Glycine max

<400> 13809

cacgaagata agtgcgatgt atatattttt ttaattctta atatcttat tacttactac 60  
cagtattttt tttttctaag aaaaaaaaaa cttaagatat ccacaggcca tgtacatcgt 120  
gtcacaatag gatgcttcatt gggatcatt caatttcac taattatatt gggtgagatt 180  
ataagtattc ggattaattt ccacacaacc gaattaagat tcgattataa ttaagttggg 240  
aacgagtctt atgtctaata ttgtacctaa tctaaccgt atcatataat 290

<210> 13810  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13810

gctttatata agccnactcc ctttcctaaat ctgattcagg cttaaataagg tggctttttg 60  
 ttctgtgctcg tacacttagc gcaattctga accgcttagt gcgcattaat gaatnttggc 120  
 ttagcgcgga ttttggtgct catcggatgg actgaagtgg tgcacttaac tggaagaccc 180  
 ttctgtcaat gaacatggac aaatcatgct tcttcagat tcttactaaa acttagccga 240  
 cgaaacatgc gctcaacgga 260

<210> 13811  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13811

tcatgatgat gaatcaagat tgatgcaagt ggtnttgatt angattacna agatgatgac 60  
 aaaaagcccg agagaatgag ttcaagattg agtcacgaac acttcaagaa tcaagagaaa 120  
 ttgatttca agtttgaaga atcaagaatc aagaataatc aagttgaaga ttcaagaatc 180  
 aagaaaagac tcgataaaga tgactactaa aaagtttttc aaaacattga gtagcacatg 240  
 attttttcac acaatctttt accaaagact ttgtactctc tggtaatcga ttaccagagt 300  
 att 303

<210> 13812  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13812

agcttgcntt tactatcgta agtcattntc aactaactat tagaattata tttcaatatt 60  
 ttgtgaatgg catatacaac tgtgtgtttt ctgtgcagga ttcctttgag gagaaagcga 120

cacagggatc ctttgtcccc catggacgtc aggatgttct caccgctgtt attggatgtc 180  
cagagcaccc tgtacatgtn cgtgctgctg gagccagtgt caccatcaag caatactctg 240  
gatctgctcc acggatgtcc cgcagctctt cctc 274

<210> 13813  
<211> 413  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13813

ntagttatga ttaagacctc aatcgacaat tagtcgcana ttctacccaa tgggttgaag 60  
tttgtggaga tactataggg ggcacaaat gtcttaatta tgggtgattac caatttaagg 120  
gggaaaaaaaa tctaataaca atataatgcc aaaagaaaaa atataaaaaa aataaaaaat 180  
aacaagaan agaaagtaaa aaaaaaaaaag aaaggaaaag ataaaaagga aaaaataata 240  
aataaatgtt aaaagaaaaa ataattgtaa aagtataaaa aaacatgtat ttataataga 300  
aaacatatga gctattagat tagttgcaca tatttgtttt aatgttgaaa gtatatTTTT 360  
aaaattgaaa gtgggatata tnttttaaaa ttgaaagtaa aatgcctttt tag 413

<210> 13814  
<211> 331  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13814

ctgggtccgca actagttgct ctaactaagt tcatttgcac tatggggcaaa aaacttattt 60  
agttaaagat gtatcattaa ttaaccataa agatatgaaa tagaagcgtt gtaattaata 120  
atgaattntg caatataatt gaagatgaat attgaaaaag atgatcacat gtatgcatgg 180  
acggattcaa ggggatcgag cgtatacaca gaccagtaaa aaaaaaaggc gtatacacac 240  
acgtatactt tttattttgt ttacatagac cccatatac tatgttacta ccacgtagta 300  
atattggtgt attataatat aacaatcata t 331

<210> 13815  
<211> 343  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13815

ttatcaaacc actgctgttt cacactttca cccccaaaaa tatttgagta ctttggcatg 60  
agtcaacatg catctgacct tctctgtagc ttgaggccgg gcgtgaatat catgcatttg 120  
agtaagagtt ttcgtatacc agtttataac tatcagcatt ttacttngaa aaattgttta 180  
ttattggaat caaatgatac gtattacgat cttctgtttt tctgttatat aaagataatt 240  
caatntgaaa ttgctttgaa gcatctatct ataaattcta aaatgtggac tgatatagtg 300  
tcatttcaac attcttattc agccacatta acacttatta ttt 343

<210> 13816

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13816

ctagagcggg tcccttatgt tatcaaaccat aaaaagggat aaggtaatat tgtagccgat 60  
gctctttctc ggcgtcatgc attactttct atgcttgaaa canaattgat tgggcttgaa 120  
tgtttgaaaa gcatgtatga aaatgatgaa acttttggag aaatttttta aaatagttaa 180  
aaatattcag aaaatgggtgt ctttatacat gaaggctttc ttttcaaaga aaacaaattg 240  
tgtgtgcgta aagtctacta caaatttggt gtttgtgaac acatgaagaa gttaaagggg 300  
cattttgggt ccaaagactc taaaacatta aaaacatttt atggct 346

<210> 13817

<211> 225

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13817

atattatgca cccgaatcgg atatccttgt gaagagttat gactatatga atnttccgag 60  
agtttccgat gtttaatttc gagcgtatcg atatattata agctcgaatc ggacatccgt 120  
gtgaaaatnt atgaccattt gaattttctc agagcttccg ttgtcaatat ccagcttctc 180  
gatatgtgat ttgcctgaat cggacatccg tgtgaaatgt ttacc 225





<210> 13823  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13823

ctcagctaga tgtcatgctt ggagttagta gcacctgect cnatactctt aaaccttcac 60  
 cacaaccctg tgctccaaca cctccaccta ctcaaactcc accaccaccg cataaaaaaa 120  
 ttcaaaaaag aagaggaagt atttcaaaca atggatcaac ataaatagga gacaggaagg 180  
 gaaaaccaag taaccaactt atgcctaaag aaaaacctta gtgagactat caccatgggc 240  
 ctgatagggg ataagatatc tcaaatgggg gggggggggg g 281

<210> 13824  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13824

agctttagt angtctagac atganacatg ncagaggggg gtttggttca aggataaaaa 60  
 tggatgcccc acattatttc catgacacac atgctaaaat gatgatttgg aaatnttatg 120  
 caaaactggg catgcatgca cctatgtgga cactcaagcg tcatatattt atggatcatg 180  
 gatgctaggg ctcaagattc atttcct 207

<210> 13825  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 13825

gacacataat actcagcttc cttgagaagc ttcttgagaa gcgtgacttg aaagttttta 60  
 tcttactaca cacacccttc taataactaa gctcacctcc ttgagaagct tccttgagaa 120  
 tattcctaga gaagctagag cttagctaca cccccctat aatagctgat cgaggccgta 180  
 tctgaatcaa ataaacatta aaaaaatgta gtatctagga agtgatccta agtcgtctcc 240  
 caacgagcaa tgggtcaacca aagttcataa tagatagtga taaaacagta acgaattggg 300

gggggtgtct gttttgtgta attatacagc gagcaaagt taattagaaa ataacataat 360  
ctaaaca 367

<210> 13826  
<211> 212  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13826

agcatttctt gtttctattn catgacccag gcgagctgga tgcttgcttg tgcgagctta 60  
tgtctaataa aatccaaaaa aagacccttt tgccccctta cttggtatct ttttgtattc 120  
ctgatcaaga cactaagnga ttccttgctt tgtaccggaa ttcgggtaca acatcgtaat 180  
ttgactagcg agaatcaaaa tatcaatgaa tg 212

<210> 13827  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 13827

gtcctgctcc aatgaataaa tctttataag taaaacatgt atgtttattc taactcaccc 60  
catcttgag cttgtcctct acagcagtg caccaagaag aattagggtc ttctcaatct 120  
tatctgatac ttcctcaatc attatacct gatcagcact gactacattc ttggccctag 180  
agaatatact atcaaactcc ttgtattctt ctgcatcaaa ttcacgataa gccagtataa 240  
agggctcag acccgcatca ccatactcat gcacatgccc catggggttc tcttccaact 300  
ccc 303

<210> 13828  
<211> 170  
<212> DNA  
<213> Glycine max

<400> 13828

agcttttttt tatattatgc acatgaatcg gacctgagtg tgacaagata tggccatttg 60  
aatttttcga gagcttccgc tgctcaataa cgagcgtctc gatatactat actcctgaat 120  
cggacctccg agtgaaaagt taagaccatt tgaatatctc gagagcttcc 170



<210> 13829  
<211> 241  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13829

ggcgatcaga atngccatgc cttggattat agggttgaac caagctcatg cttttacaaa 60  
aaggttcatc aagtcaagtt gaaatatgga agtaaccgtc ttgcanaatt ggggcaaaag 120  
atgaatcgag tcacatcact gcttcatcta ctgccaaaca tatttaggat tgttgatgct 180  
cttgttactt tcagtttcac tttgacaaag atgtcatgga ccatgttgaa aatctaaact 240  
g 241

<210> 13830  
<211> 228  
<212> DNA  
<213> Glycine max

<400> 13830

agctttatct acatgggcta tacgaaacat tggataaatg ttgcaaaaat atattaataa 60  
tatgtattca taattttgca atattttatc taatgctggt aaaagttttt aataacactt 120  
aataatttat attaagtgtt agattaaaaa aaattactaa agatcacatg tattataatg 180  
accacaacta gcatacgtgg aaactacgga gaacaaagaa aatgtttgc 228

<210> 13831  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13831

tgcatttgag aagacacaac aagcactagg tgaacatggt cctatcctac aactaggagt 60  
ngcttcttta ccttgacttg tggaagatat ttgtttctca tatataggat ttaacaacct 120  
tcttgctctg catttcatta gttgtagcaa tgggtgcttat tgtttgaaag ttaactatca 180  
ccttgaggac aagggtgcttt tagatggcat aggggatgat aggaaaggaa ccatggccca 240  
ataagatact actgtggaca ttaataaaaag gcccanaaag aagatcactc caccaaagca 300

tctagaatat tatgtgtg

318

<210> 13832  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13832

agcttcttan tcgcaagtta atttttaaga cttacggatt aagttgatct gtaagtcttt 60  
tacggatcaa cttgatccac aagcttctta cgaataaagt tgatccgtaa agagagaaag 120  
aagaaagagg taatgttgcc atttttaag aagactgggt gcacctagct aactccaca 180  
taataatgca gcaaccagca atacaacagt gcactctgac tcactataag tgatgcactc 240  
actgcactcc tcgctggctc attgcgtatt aaccagaagc atcaatggtc accaccgagc 300  
cggagcaccg gccgcatga 319

<210> 13833  
<211> 258  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13833

tgcaactttt tgttgtcaaa atagcttcct aatggtaggg tggtagaggt tacttgtcaa 60  
accaaagcaa ggtatgttat tgcttgaata gcccttgtaa cacaattatg tcatgtatcc 120  
aattgctatg gctgatcaag gagatcttta tgaaagggat ggaattgttt tggataggag 180  
caaaagggat aaaagcagag tttcaaacc attaatgaaa tgggcactac taactacaac 240  
ttctgaggaa taaatgca 258

<210> 13834  
<211> 321  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13834

tccttcatt ccaaggtgga tggaggggtc tggtggaact aaatggctct aatcaatcac 60

ctataattca ttaatctaga tttgaaactt aacatgtaac ttgtaattgt aagagctata 120  
tctccaaagt agtttcacac cccgatgtggc gatgtcctta tctcaagaag acacatgtcc 180  
ttatctcaag aagacacatc attctatatt ggaatttcat aatttctatt taaatttctg 240  
ctttaactgc ataactctaa tntatcatca ctacttttca attttctcta tttctctaca 300  
tatnntactt ggtaatatc a 321

<210> 13835  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13835

caaggagntt taccattgca tttttatggc ttattattnt aatgacatct tanattagtt 60  
ttaaatttaa aattagacaa aaatatatgt gcaactatat tgttataaat tagtagtcat 120  
ttttagtggg caaggatgag aatgagctga acatatgagc acaaatttaa ccttttctaa 180  
aaatggcagt tgtccacttg tgtttggtta aaatgtaatt taatcaattn tgtcattcag 240  
catcatctta tctaagagaa atataatgat agaaaaaaaa tcttatctca tagaaagaaa 300  
atattagaaa aaatacattt cactcttaga ctctctatca atctaagtga gctccatgta 360  
gagcttgtag gccttggatc t 381

<210> 13836  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 13836

ctataaatag ggggagaagt gaagaagaaa agggttcagc ctctaaggca cttctctctt 60  
tctcgaaatt gctgaggaaa attattttcg tgaagaaaat ccaagccgag gcgcttccgt 120  
aacgtttctg taacgtttcc atgagtaatt acgcgaagat tctcgaccgt tcttcaagat 180  
tcatcgttcg ttctgcgttt tcttcagtct tcaacgggta agtacctcaa accaagcttt 240  
tcaattcatt ctatgtaccc gtgggtggcc acattttggt tcatgtattt ttattctcat 300  
tttcatttac tttttatacc ccccttttga cgt 333

<210> 13837  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13837

gtatatgtaa atcaaccccc tggatttgaa aactcagaca agactaatca tgattntaga 60  
 ttaaaaaagg ctntatatgg ctcanagcaa tatagatact actcttttca taaagagaaa 120  
 attacatgat attttattgg ttcaaattta tgttgatgat attatTTTTg gatctactaa 180  
 tgaattattg tgcattggaat tctctcatga catgcaaagt gagtntgaaa tgttaatgat 240  
 gggagaactt aatttctttc ttggattaca aattanacaa accaagactg gaattnntgt 300  
 caatcaatcc aagtactgca nagagttaat tcacatatcc ngaatggaaa tgctancaca 360  
 tggctaccca atg 373

<210> 13838  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 13838

tggcttgctt gtgtattagt taattagga gattaaatgg gcctaataca ggcccatccc 60  
 tttcttttga gtagtaaagt tatatattag tggaggttag ttatttagtg agttagttac 120  
 ttcattttgt ccaaaaacag atttagttac ttgttggtgca agtttttaaaa aaattctttt 180  
 atcttttttt tccctctcaa tcattcttca tttttcttcc tcttttctgt tcttctc 237

<210> 13839  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13839

cctaggatct tcttcatcaa tggattcctt tgcttcttgg aagataaatg gcngcggaat 60  
 ggagatagga agagagagag gagacgccac ttcaaagaga agatgagtct agaagaagct 120  
 caccaccata ggaggccatg gataagagct tggaggaaga acgagatgaa tgagggggaga 180  
 gggagagaag agcagcgaat tttgtgctct aaatgagcct ctgaatctga agtttaatat 240

ctcaatgatac aaagttgaaa aaaatgcaca tacatgacct ctattatagc ctaagtgtcc 300

a 301

<210> 13840

<211> 198

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13840

ctcctaaagc atgtcatcct ctgccccatt aggaccctat agctntggga gccaaagtgat 60

gccttgcggt ctagacttca accatcggtg atagacgcct atgacaccat tgctacttgc 120

cgctactct atacttttta ttccactct attccacgt tgatggatcc tctaaagtat 180

cttcgcatta gcttcac 198

<210> 13841

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13841

tggaatTTTT gattcgtgcc cctgcaattc ttgaagcaga gctagaagtt caagtgttgg 60

ctgattatcc tataccttct agcagattgt tgagttctga ttctctatt aaagacccaaa 120

tggttagtta ataacatagt tgtctatagg aagctttcag ctttccttgg tatgaatata 180

agataaaaaa aaataagagt gctatgtgtg tgattttcta acttttgact aaattggaaa 240

tacgtgactg actcannatt tagagtgtga tcattttctca attctagttt taagttgcta 300

g 301

<210> 13842

<211> 132

<212> DNA

<213> Glycine max

<400> 13842

atgtctacta tcatcgagat aatctctttc tctataatcg gaggcgctac ttgagctgcc 60

aagatctatc catctttggg cgtatccttt gaaagatccg tgccctcttt tgcacatggt 120

ctgtagttgc at

132

<210> 13843  
<211> 506  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13843

aggatgatggg gnnntnannc ccctttgcac ttccgagact ccactaggan tctncangcc 60  
tctcacagaa gggagaccta anttatgaga ggggagagcg tttttttctt ctgcctcctc 120  
aaggaagtnt tctcaaagag gctcttcaag gaggttttct cacgaaagct tctcagggaa 180  
gctacctact ctataaatag aaacatgtgt aacacttggt gtaacttggt ggaccttggtg 240  
gcctcaataa tcttaagagg gaggggctca caatatctaa gaagcacaac aatcaattta 300  
acaatgttct ttaacatgcg cgacacaatt gattgaacac cctaatacaga ttagggaaga 360  
gagaatgcaa aactgttta tactgggttc ggcacttcct ggctacatc cagtcttctg 420  
aaccacttg agattacact ttcttcgtaa accattacaa tctgaacca ccggacacca 480  
tccttgggtt tatgctttaa aagaag 506

<210> 13844  
<211> 213  
<212> DNA  
<213> Glycine max

<400> 13844

acttctattc aagctcatct tgggaggaag ctcttcttt catggcttat tccctagtgg 60  
atggcgctc ctctcacctc ttatcctttg tcttccgctg catctccatg gtggaaaacc 120  
accattaaag gacctcattg aagctcaaag atccagctc catagaagct ccacaagcaa 180  
gcttccatca atgcacacac ttgcatttat ttg 213

<210> 13845  
<211> 251  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13845

tctagccaaa tggactgacc ttgaattaat gcctntgatt gcctctttga gccttgtttc 60  
 cctttccttg ttttgaatct cactacaagc cttaagtga aaaccatgat atcaccatat 120  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gggtttttgt 180  
 ctcatggat aacatttttt gcaggctata cttcatgatg tattctgggc catacttgat 240  
 tgtcataccc t 251

<210> 13846  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13846

agctttaatt ttgaattaaa atgttcagaa actgctcgta atcgattacc aaatatgtgt 60  
 aatcgattac atagtgc aaa ttttgaattc aaattntaat agctgttgta aatcagtttt 120  
 ggtcactggg aatcgattac atcctctggg aatcaattac cagagagtaa atctcttgaa 180  
 taaagctctt taacttaa at tcttggaca agccttttgc tactttaaat aggaattccc 240  
 ttcctattta atataccctt cctaagactc tagaaactgt cttgatcatc catcctogat 300  
 atcttta 307

<210> 13847  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13847

tagcgtaagc tntcgacta agcgtgtgtg tcatgggtct tttttcgcta agcgtgtgtt 60  
 gcacgctgag cgagaatgag cgcaaggcac gtcttgcatg ttaagcgggc tttccaattc 120  
 tttcattttt ttcttcaagg ttttttcttc cagtttttgc atcaattttt cctctaaagc 180  
 acttgaaatc tttttctttt aaatttttct aatcaaaaat agcaaagatg ttaatttctt 240  
 cattatttca ttaaaaacaa taataaagta aaaaattacg cccacttatt aatccaaatt 300  
 gactatcaca ttagcttata tttcgcaact atcanaggga aagagaatta gcaaaaatgg 360  
 caacgaaaat ggcagttttc tttacaggta ttccaattta atcttaataa a 411

<210> 13848  
 <211> 204  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13848

agcttttgatt cctattanac aacaataact ttgtactcga atgtctgatt gagtcccga 60  
 acatatacgag acgctcgaaa ttgaatgttg aacgtttgag ctaattcaaa cgacaataac 120  
 atttttctcg gatgtctggc tgagctccgt ttcatacga gacactcgaa attgaatgtg 180  
 gaacctctta ccttgattaa acga 204

<210> 13849  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 13849

tctacattca atttcgagcg tatagatgtg tgacgggtcg taatgagaca tcccagcaaa 60  
 aagttatgga gcggttgat aggctgacat cttcaacaat taatatccag cgtctcgata 120  
 tgttacggta ctcaatcaaa catccgagta aaaagttatt gtcgtttgaa ttaactcaaa 180  
 gcttgaacat tctatttcga gcgtctcgat atatgacgag cctcactcag acatccg 237

<210> 13850  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13850

cttggttgta ttttcacnag nggcaaccaa cgggagggcg aacctcgta tgaagaacag 60  
 acaccccacg aagcctcaaa cccgcttctc ggtgtgtgga tcaagcatat caaggattgc 120  
 cttcaccttg tctcagatca cctctacctc tttctggctt attataaaac cttacaacat 180  
 ttoccaaact gagc'ccagaa gtgcactttt gcgaattcta cccttattcg atacgtacac 240  
 ataacctctc ttataagttt acgcaatgtc gattaagcgt ttctctctgt tttattgaac 300  
 ctgcggaatt ttcttaatta cataaccctt gcatcttttt aggagtactg tgggaatact 360



ttcatctaga ccgtcttgaa gtgcccc 388

<210> 13851  
<211> 103  
<212> DNA  
<213> Glycine max

<400> 13851

ccctttaccc aagcccagcc tcagcccaac aactcagacg gtatgccag actcatagca 60

tttctcctct ctacgagata acccacatgc caaacgccgt aac 103

<210> 13852  
<211> 155  
<212> DNA  
<213> Glycine max

<400> 13852

agctcttgcg taattaacta aatgtcaaca tcaaatgac ctacatgtga taataggcca 60

acatgatctc agaatcaggg taagggtaat ccctaaattg gctccatttt aattacaatg 120

tgacaatcaa tccccttgtc ttatttaagt ggaat 155

<210> 13853  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13853

tatcttgatg aggatgtgcc atatgttctt tangactgga ctaatacatt ngctgccccaa 60

gtttcatggt ctgacaggtg aagatcctca taagcatctt aaggagttcc atattgtctg 120

ttccaccatg aaacccctg atgtccagga agatcatatc tttctaaagg cttttcctca 180

ttctctggag ggagtggcga aagattggtt gtactacctt gctcccaagt ccattactag 240

ctgggatgac cttaagaggg tgttcttgga gaaattcttc cttgcatcta ngaccactt 299

<210> 13854  
<211> 158  
<212> DNA  
<213> Glycine max

<400> 13854

agcttgTTTT ctgattaaga tcgcgacttt ggcggacggt ggagatgggt tctgggacac 60  
agctgctagc tatttgctct tggctgcact tgacgtgctt caaacactat tgtggtagcg 120  
tagcgagtgt gaaacgacat gctactgtgc aaaggaga 158

<210> 13855

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13855

taagtattct aaagatgtgc gtgacgcgag caaagttctc tttntcgtcg atctggttca 60  
aaccagagac agtgttgttg aagatgataa aaagctcgag cagctacttt atgaaaccat 120  
ctttaggggt cttaacaaaa tacgtagaga catcgttgaa gtgatatacc ttggtcggac 180  
acaacaatgg actaaagtcc ttatgatcat cctctgatgg ctaatctgta tatttggaag 240  
tggatgcact caatgagtca aaccacatag catgactcca tgaagggtat gcatcattgt 300  
tgcccaactc cctcctaaat ctatagttac taaac 335

<210> 13856

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13856

cttcgtcaag taagtgcag cttgatattg attttttagg ccacattggt gcaagttgct 60  
gccactgtac ctcttaactg ttcaagtcaa caagatggct taagggtgtg gttggataaa 120  
caacttaatt aagtgcattat tagataagta cttatcatgt aagcccttat gtataagcta 180  
tntctataat aaaagtagaa ataggattaa actctctcaa tataagttgt tagttatttt 240  
catgaggtat catggagatt ggagatctta tngataagct gaaaacaact tatggacaaa 300  
ttataagcta tgtccataag ctctcccaaa cacttacaag ttcttatgtg ac 352

<210> 13857

<211> 244

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13857

aaatgaagca atgtatagaa gtaaataataa agaaatgaan aacggaccta tacttggttg 60  
gaatgggttt gatcatgaca gtagttctag tatctttggg accagattct acaatggcac 120  
cctctttgat tagaaaccta gtttcttgn tcttcgcttg tttcccttc cagtgcctac 180  
ttctangtac ttgttggtgt tggttggtgct gctgctgctg cttggtggtg gttcctacta 240  
ctac 244

<210> 13858

<211> 305

<212> DNA

<213> Glycine max

<400> 13858

tcgataatga ccaaccggtg ggcaattaaa ataaagagtt ttagctatag aaactttttt 60  
ctaacttttag aacttttctt ttaactcctg tatgatgatg catgatgcat atatgaaatg 120  
atatagacta agatgcaaca cacaatacaa caatcaatac aaatgccact caagagagtt 180  
gggcatgtaa aagaaaaaac tttttgtagc tcttcttgaa gcttcaaggc taagtcttca 240  
tgtcgctccc cctatctcta atagtaaccg ttggaaagaa gccaacaact agaatgattg 300  
ttgtc 305

<210> 13859

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13859

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ggcaaact ctctgtttta atcgattaca tctcactgt gattgattac aacaagttgt 180  
ctgaagtttg tagagttgag tctcatattg gtttaatoga ttaccgatat cttgtaatcg 240  
attactttgt tgtttgagac catgaatgat ctattcacga gtctctgctt taatcaatta 300

ccaagtggat taatcgatca cttctctctc atttagatgt cagacgtgaa caa 353

<210> 13860  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 13860

agtatcgatg aggtatactt aacagaaaat acttataaca ttacaaaata accataaatt 60

gggagagttg gatacatatt tatacaaggt tttatacaca aaaataagtc attttcaccg 120

actaacaact caccctaaatt tacagttttg cttgtcctca agcaaaaaga gaacaactca 180

cttgttctca agtgacaatg acatacagtg actatgtaca aaggtgtatg ctacacagtt 240

actgatggca tgataagaga atgacgagtaa atgccctcat cacttgtgtt taataaggta 300

tgcagttatg cagagagaaa aatgaaatgg ttacttgaca gatagatgaa agtatgcat 359

<210> 13861  
 <211> 107  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13861

ctatgtagnc aatacacatg gggcgggtcc cattagactt tttcaccatt accacgtttg 60

ccaaccactt ggtatactac acctctctaa tgaaagcaac acttagt 107

<210> 13862  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 13862

cacaagatac tcagcttatg tcatagctgc tgagagtaga ggcgttaaca atttctttct 60

cccctgcttt gacctagaca ggaattagtt tacagtaagg ttcaaacata acttgatatt 120

tagattaata cgcacttgcc atcaagataa ggaaacatac actctagcta atatgtatat 180

tccttgtaa agcattcata ctgtgccatt aatgaacagg ttcctcctgt atgtcgccct 240

tcttgagatt atggatcaaa catatgaacc cctctaataa tctactctct atgatataag 300

aggtttatgc catacccaaa ta 322

<210> 13863  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 13863

agctttatatt gttgaatcaa gttgattcaa gtcgttgtga taatgacaaa gatgatgaca 60  
 aatagcccac agaattgattt caagattgag tcaacaagtt caagatcaag tttcatgaga 120  
 agaaatcaag aagattcaag aatcaagaga agtttgattt taagattcaa gagaagatga 180  
 attcatgttt caagagaaga aatcaagaag acttcacaag ggaaatattg aatagaattt 240  
 tcaaaaccca acatagcaca gttttgggtt tccaaagagt ttttctcaca atgttctaag 300  
 ctacatgagt ttttactctc tcg 323

<210> 13864  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13864

ccctctggaa atgattncta taaaaagta gagtcgataa tgctactaac acggagtgat 60  
 gatcaatcga tcatgggcct agcacctatt cgtaccagcc cctaagcttg gacaaagaaa 120  
 atgggtatcat gcaacaagtg tgaaagaata ttacaagatg tttgcattac ccttcgcctg 180  
 cccctagtgc ttatctcana ttgggtgtgtt gttgaccatc actcaactct tcatccatct 240  
 tccgatttct aggatcctgg ataacaagat gcaaatgcct gcatgattat gatcggatgt 300  
 tgaatgtgat aattaaacaa gcgttatcat g 331

<210> 13865  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<400> 13865

aaaaaaaaa gggggaaaaa aaaaaataa aagagagaaa aagaaaagaa aaaaagaaaa 60  
 aagaaaaaaa aaagaagaga aaaaaaaaaa aagaaaaaaa agaaaaaaa aagaaaaaag 120

aaaaaaaaa aggaaaaaat aataagaaga aaaaaaaaaa aaaaaaaggg aaagaaaaag 180  
 aaaaaaagaa aataaaaaaa aaataaaaaa aaaaaaagaa aaaaaaaaaa aaaaagaaaa 240  
 aa 242

<210> 13866  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<400> 13866

gtcattgtag tcaaaatcaa gatttctactt aggatcaaaa ggtaaggaa ctataaattg 60  
 tgtacttaat gacagctatc aggtcgattc gcgagatcct acttataaga tatagtgggtg 120  
 cttaaagata ttcatatgca tagtgaagag cattaatccg cgccaattat cttatgataa 180  
 ctac 184

<210> 13867  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 13867

gctcgaaaag cgcgagagaa cgagctgagt tttctgcgtc ttctagaaaa cgcgatgaac 60  
 tcgctaagag agaattgctaa gctaagcgag ttcatcaata ctcatgtat ataagctgta 120  
 tctgaagaac tcgccaagcg cacttactgc gctaagcgag ttcatccttt gaggataaac 180  
 attcatcctc tagctgaact acctatggct gagcaaggga gaatcgctaa gcctaagtaa 240  
 cttaaccaaa tttcgtctct taagccttgc gctaagccga ctgtagctga gctagacgca 300  
 tttcatcact ggaaacttt 319

<210> 13868  
 <211> 83  
 <212> DNA  
 <213> Glycine max

<400> 13868

atgatgccga gtacaacaat gaagtcaatg tgaacgggag ttcttagcat aactgagggc 60  
 atggatgagg atcataagac tat 83

<210> 13869  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13869

taccagaagc ctctctcctc cagatcgcggt atgctntttt ctctctgata cactgcacaa 60  
 taactcgccg attaaacaca tacacaacac agctatctca tgtgcctagg actcagaaac 120  
 cagcttccaa caactctcaa actccccaca ccggtgccac cccatcacac acccatcaga 180  
 ccctactcct tctacccatc tcccatcatc acaaacatca gcgtgcttaa aagaaacatc 240  
 tatatgaccc atcagaatct ccttcaaagc atgccgcccc ttaccatctg ttcacccccca 300  
 agccataatc tgttcatcag cacatgcaga at 332

<210> 13870  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13870

aggcttttga ccttttgtac cnacnggcgn aatgagctcg acccgggata ctctagagtc 60  
 acctgccgcg tgcaatcttt tgtantgacc agcagaaaca aacggccagc gggcagtgga 120  
 gccagacata tactggtcac ttaacttttc acagaaacac cattcatggt aggtacgata 180  
 aaccaattcg gacaaaggaa gatgatgcac gaggcttaaa cacatggcca taccgaaacc 240  
 atcttggaca agatccccc a cgggtcgcca gtgaagtgat actgacgccc ttctgcttca 300  
 cttgcccaca tctgcccata atatcagaaa tgttactat ttttgagacc gagattacct 360  
 acaccaagaa tgagagacaa atccatgcac agctcttccc ttctaaatta taacaaattc 420  
 caacgaagtc tgctttacta ccggattggt ccttcc 456

<210> 13871  
 <211> 179  
 <212> DNA  
 <213> Glycine max

<400> 13871

gttgaattca agaatcaaaa atcaagaatc aagtttcaag attcaagttc caagaatcaa 60  
 gatcaagatt caagaatcaa gagaagactc aatccagata agtattaaaa agttttttga 120  
 aaaacttagt agcacatgaa atttttctcaa aacattttta ccaaagagtt tttactctc 179

<210> 13872  
 <211> 502  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13872

cccttatctg tagctagtat tcccggacct tgaaactcag cctggagtaa cagcaggtag 60  
 ttcttttgat ttaccattat aaattactgg aacattctgc tatatctgtg ttttggcaag 120  
 cacacaatat attcactggg gattaacaac actttaattc gatcaccatt tgatatatta 180  
 tgtgaaactt gtgtttaccc agcgcaccat taaaaacttc aaagccttcc ttttactttt 240  
 taataaccct ttcctttggg ggccgttaat taattaaaaa tttcatgatt ttaatctaaa 300  
 taaatgaccc tgattaaaga tttttgttca aantaattta aatttagtat tacaatacct 360  
 gaaattaatt ctatgttcta accaaacaac caggaacaaa gtgacanacc ttgcactttg 420  
 aagacctgtg ttcgcggttt gtgtgcagat nttggtggag tnttggtggt ttaactatct 480  
 catattactt tacaatacaa ag 502

<210> 13873  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 13873

tccaacacga caaggaatth ccctccgagg ccgttgccgg aattcacccc gctcccaatg 60  
 acatacgaag atctttctacc atccctcacc gccaatcatt tggccgcggt aactcccgga 120  
 agggctctcg aacccccctt cccgaagtgg tatgacccta atgcaacttg caagtaccat 180  
 gggggtgtcc acgggcattc cgctcgaaaaa tgcttggtccc tcaagtacaa ggtccaacat 240  
 ttaatggatg ctggatggct gac 263

<210> 13874  
 <211> 383



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13874  
  
 gccaaatddd cctgtcctgg ccctcctggg aatccttggc accatttcca ccataaaacta 60  
 aaattgtttg aaaggccctt ctgactctgg catcctcacc ctatacagaa tnntaaactt 120  
 gatatgataa acatttgaag ganaaaagta aagccattga ttgtaattat tatctctatc 180  
 agaaaagtaa ggtagtaatt ctattaagtt tggaaaggaa aatataatac attcattctt 240  
 agacttcctg ccattacttn tagtgatggt ctcattgtgt atgatttcag atgtactgat 300  
 ttataaagct tactcgaaga ccatgcatca agccaagagt taagttgagt gtnatcatgc 360  
 atataagcct agatccatct aat 383

<210> 13875  
 <211> 62  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13875  
  
 ctttttgcac atgttctgta gttgcatcct attcagaacc atatcaaat tgtactgata 60  
 ct 62

<210> 13876  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13876  
  
 cttgggctga ttgaggaaaa aaaaaacctt tttggtttta aaataaaaag ggttttcctt 60  
 tttttccatt attttattca agctctgcc catgtcccta ttcgattgga gcaaaagggc 120  
 ccactttctc tttttgactg tgaccatac tcagtcacaa aagtgagaaa aatctgacct 180  
 ttgaaacgct aaaatcctgc ctcggtttgc gtgtcatttc tctgattcca gtttctcgcg 240  
 tntctctgcg tccgccgggg ccagttttcg aaagcaagca atatataat caaaacgctc 300  
 agaatgaaac cccgagtgtg gtttagaggt tgttttcggt aaattttaag tccacgcaac 360  
 acgatgattt ttac 374

<210> 13877  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13877

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 cctccttaat gagatccctc gattctgaaa gttgagcagg cttgcccacg agttttctctc 120  
 tagacgactt atcaccaaaa gcaccatctg gtgggtttcgg tgccagacta gcattcgctc 180  
 ctttccttct ctctctacca tctctattg atnttttttc ttccaaaata tagtttctct 240  
 agttttttca atgaaataac tcacaatctc tccctcaaaa aagaaaagaa aggaaataac 300  
 tctaaatcta aaaaaaagaa gcaatttgcg gcatgtcatt gttttatgga caagacctat 360  
 a 361

<210> 13878  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13878

ccaatggagg tagttggcaa tacaagttca gaagtgtcac cattcaatac ttatggagca 60  
 gatcgggaaa cataccagat tntgtgcaag caaagtagaa gcaaaatgag catctnaaaa 120  
 tgttgaagat gaaaattaaa tttaattgag ggaaggattg ttaggaaaca attcatattt 180  
 ttaatttcaa atctctagga tattgcttan atttaaaaaa agaattattgt cttatttcta 240  
 ggatgctctt tagaattaaa gatatttct gttaaattaga gatntgtttt ctcttttaag 300  
 attatgatgt tagggttata tatagagatt cttaagatga gaagaatcac cagt 354

<210> 13879  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13879

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 ttagattcaa caccaacatt ataatttcn aacactcatt aatcccaatc ctatttacat 120  
 tatcttgatt tgggtaggat acgtcacccc aaagctagct aatgaggtga ggattgtcat 180  
 ttttttacag ttctacttta gccatatcta acaccctccc atgttaggat tagcatctgg 240  
 acaaagagat tgaggaattt ttctgtatta ctgtaattcc ataagacaat acaaactatc 300  
 tccattttac ataactctta caca 324

<210> 13880  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13880

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 gtctgcatag aattctctct tacttttcta ttaattgtca aaatgattct gacttgatga 120  
 agatagaaaa tagtaaaaa aaattaaact ccactattat gcaggatatt ccttccttaa 180  
 gtgcagaggc agcaaaggaa catccagatg tgcatacat tgtaactgca ccccttggat 240  
 tacatgaact acttgtggta tgaattctct taagcatggt ntattcatat taagtatcct 300  
 gagttgaatt tgtttaaata ctactat 328

<210> 13881  
 <211> 142  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13881

agcttgctcn atattacatn gatgtnnnga tnnatgggag gaggttgat gccgtttttg 60  
 ttttaagagt agtgtccac tggtaaaact aactttccaa atttttgcct tcgcaggaga 120  
 tggccccgag gaagcttgcc tc 142

<210> 13882  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13882

tagagaagaa gcttcaatgg aggaagagaa tgagagagag tgataggatg ggggaggcat 60  
gggaattgaa ggagattaaa gagagaagtt gaactttgaa gtgtgtctca caagtttctc 120  
attcatcgaa gttatgaaaa gtgttacata tgtttctatt tatagcttag cacatgggaa 180  
gcttccttga gaagctagga aggtaactta cttgggaagc tagaggaaga aagcttcctt 240  
gagaagctaa aggggggcta ctacacccc tccaacagct aagctcacc catgccanaa 300  
tatatgaaaa tacaatggga agcttccttg agaagcaagg aagaaagctt tcttgagaag 360  
ctagaatggg gctactcaca cccctacaat agctaagctc acccccatgc canaatacat 420  
ganaatacat aaaaagtccc tactacagag actactc 457

<210> 13883  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 13883  
agcttcctt atgtcgttga agcctgactc ggacgagtg actatgggag actcggcgcg 60  
ttccgctgat tcgccgctg ctgctggcaa aaactacaaa ctacacggtg taagttcttc 120  
cactgccaaag cgagcttcgt cgtcagccgt gtttacggcg agcatggtgt ccggaattga 180  
acctttggtg ccgtttaaag atgttcctaa tgctgagaag atgaacc 227

<210> 13884  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13884

tgtagagctn gagggttaga actagaagga gtagtgataa ttacttagaa cttgttaaatt 60  
ntagtagaac ttggtggttt atcaagaact acacatactc tcggtggtta agatgaacca 120  
gtataacttt ttgtgtctca caagttttca tttttcttcc gctttaaatc gacctacggt 180  
tcaaatttga ttctgtcttt ggaaacgtta tctatcttat gaaatcgtgt ctatcgcgtc 240  
aattgtttta tgaaaatctg ttatatactt tttgtcacac ttctcatcac acgataacgt 300



<400> 13887  
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 gacaatatca tcatttctgg cactaaactg ttgggagttg gaagccatct tctcaattaa 120  
 gatcctggct tcagcagggg tcatgtctcc aagggtcca ccactggcag catctatcat 180  
 acttctctcc atgttactga gtccttcata agaattattag aga 223

<210> 13888  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13888

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 tggagatgca gaggatgata aaggagaaga gttgagagga gacaccatcc actatggaat 120  
 aagccatgga aggagaagct tcaccactaa gagagtgcct tgtataagaa gcttcaatga 180  
 acgaaaagag tgagagagag tccggcacia aattgaagga gaaaaagaga gagataagtt 240  
 gaactttgaa gtgtgtctca caagtttcac attcatcaaa gttacaacaa gtgttacacg 300  
 tgtttctatt tata 314

<210> 13889  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 13889  
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 gacaattctg cacatccaca aatcacgtat aaacccacca tcccctgttg cccacctcca 120  
 attgagctca cgtactccca cgtagccctt atcctcgttc ctctcaacgc cgggtcccca 180  
 tcaatcctct caagctccca caacatccaa gaaattcaac atcccatcat cacaaactaa 240  
 ccaaaccaag caaacaggg cataggcaga tgactctgcc cagaacacaa accaaaaatc 300  
 acagcttttc acatacaa atccagtaa cattgtcttc gttccaatct gctaaccggt 360  
 ggatcgactc gaaaagttaa ctggaaggct ctagtacatg agtgtacatt ctgaccgttg 420  
 ggatctacta gcaaacg 437

<210> 13890  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 13890

agcttttagtc ctgacccggt ctgcacttgt aatgtgcgat gctcttgccc agtttccacc 60  
 attatcggac aaagaaagct tgaagaccga gctatgcaat ttctgagagg tctgaatgaa 120  
 cagtatacat acattcggtc tcatgtgtta cttatggatc ctataccacc catatcaaag 180  
 atctttctcat acgtggcgca acaagaacgg caactgttat gtaactgctc tcctaattctc 240  
 aattttgaat ctaaggaaat ctccattatt gctgcaagggt ccgtttgtga gtattatgga 300  
 cgaatcggtc accacaaaaa tgtgtg 326

<210> 13891  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 13891

ccttgcttct acattccgct gatgaaactc atagtttctc agggcctgct gcaggaccca 60  
 tcgtaaaaaa atgatcaaaa gagttactgg tctcatgttt tggggtaggg ttggttaggt 120  
 tttgactaag gttagagaca tttatgtttg ggtaggggtt gaggttctgt ttggtttaag 180  
 tagtgtgtgt ggacgagtggt cttaaggcat tattcggtgt gttgtgtg 228

<210> 13892  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 13892

gtccatccat tttcgataaa cgccacttcc ttcgctgggt aaattggagt ctcttgaat 60  
 ggtcaatgtg tgactatgta aagggatata cttgggttaa tcactaaaag ggtgaaattt 120  
 ccatggagta aagtttgtcg ttgggtgtta tgattagtgt acatgggtgat gatgattgat 180  
 ggactgatga tgatgcttga tgggtgaatt atgggtgatga tgatcaattg agtgataatg 240  
 ataatggcat atgatgattg aacccttatg tgatgggtga tgaattaagg attattatga 300

tatgctcttg tatat

315

<210> 13893  
<211> 234  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13893

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caacattatt ggtgatatat caaaaggggt aacaagtaga cattctctta aagatntatg 120  
caataatatg gcttttgtat ctataattga acctgtcnga acctaccctt cggcgggagg 180  
gcgacgcgtg actcgcggga tgcgtgttcc ccgaaaggaa tacgcgcaga gtca 234

<210> 13894  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13894

nnnttagatg angcttgtat nncagggact atagaagaag acgngagct tctatagaga 60  
accggaggaa tgaaagctcc taagtaaata cncnaannna nacaaanagg ggagagtaac 120  
ttaagtncga cgagctcgac atcgaatgta taccgaacaa aacctaaatc cacaattttc 180  
tttctatgga acaactgctg agtatcacat cacataaaac tgctgccatg agtctattaa 240  
ctgcacctt tatcattatc tgatattccg gatgagcttg aaagtatacg atctaccgag 300  
aacgcttgaa atataaaciaa tggggcgata aattaaataa tttaggaccc aatttgaaca 360  
acaagtaacg ggggagatga aattggggccg atattcttct tggggggcaa atacgcaaga 420  
tgtagaagac caaatctcga agtaggacct caaccagcta gac 463

<210> 13895  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13895



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[illegible][illegible]

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 tccccatgta catacataac atacattatc acaatgacgt tttcaatgtc aacaacatct 300  
 catcttaatt gtcttaccba catcaacatc atgtcatctc aatatca 347

<210> 13901  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 tagctacaca ccnctataa tagctaagct ccccccatg acaaaaaaca tgaaaataaa 180  
 aaaaaagtcc ttattacaaa gacaactcan aatgccccga aatacaaggc ctaaacccta 240  
 tactactaga atggccaaaa tacaagacct tgacgaaaga anaacctatt ctaatattta 300  
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<210> 13902  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13902

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 aaaactaccc atcatatctc ccaaaaccca ataccatga acatttatgt gagaagaagt 120  
 ctacccaaac ctgaaatctg aagtcccact atgtagaggt gcactntacg actccgaaaa 180  
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<210> 13903  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13903



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<210> 13906  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13906

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tcaaaaggat ataaaggaac ttaatgaact acatattcat cataaaagaa aaaagatgtg 180  
atctttggag agaatgcgca caagcacaca aagattatga tgaactcaaa gtgagtaaac 240  
atgatttttt ggtggaatgt gaagaactat cttttcttga agagttatac aaacttcaca 300  
tgtctacatg gactcggaca atgaaacatc tacttgatc 339

<210> 13907  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13907

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atcattgggt ctccgtcatt gaagtgccac ttgagctgcc aggtctctcc acctttgggc 120  
gtattctttg aaagatctgt gccccttttt gcacatgtta tgttggttga tcctatccgg 180  
aaccatatca aaattgtact gatactgcct aatgaaggca accattatgt ccttccaaga 240  
gtggactcga gaaggttcga ggtagtgta ccaggtaaca gctaccccag taagattatc 300  
ttggaaggaa tgtatcagca ggtcctcatc tgttacgcat gccgcacatc tccgataata 360  
catccttaga tggttctttg ggcaagtagt ccccttatac ttgaca 406

<210> 13908  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13908

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 acattcttca ttgaacacaa aagcaacatc tttattcaac aaattgctca acagtttggc 180  
 tactttggag aaatctttta tgaatcgctt agtgaaccct gcatgtgcta agaaaattct 240  
 tattcccttg acattcangg gaggaggtag tatgtcaatt acattgtaca cctctttccc 300  
 tcttactgac attttatgcc ccaactat tcgcttctga accatgaaat gac 353

<210> 13909  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13909

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 atggggagaa accactctcc atcactagtg tgtaaacac tactatatga agccacttcc 120  
 ttttatgtct gagcaggtct gtgtaaaaga gctcttcttt tgatgggtgat tgaggaatct 180  
 tagaacttag cttcatttat tcttcataag attcaaaaat tcctatgaga atgtgtctgc 240  
 aaaatagatt tcaaacacat ggtattaaat gatctttaat ttgtatcaaa tcataattct 300  
 atcttgctat catctgaaac atcagacatc gacttcacaa atcatgttcc gatagtgcac 360  
 gagacataac tcttaatctt tgtatt 386

<210> 13910  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13910

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 agggngngaa atttcnncac atcaaagaaa aacagaagaa gggannaaat ttccaatcga 180  
 agagccaaaa aaagaaaaaa gaagggaann aattccccac natcaaagaa gtgggagaaa 240  
 agcanaaaag aannagaaaa gggaaagatt cccaatcata agaaatggga gaaaagtnna 300

aaaaagggaa gaagaaagaa gggaaagaaa agctcctgat caagggatcg aaagaaaacc 360  
agaagaaatg tgcagagagg tctttggacc ggacaatatc tgaacaatac agaa 414

<210> 13911  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 13911

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ggttggtgaa gagacggcat gggcatctcc ttctttcctt tttgcccctg tcgccccgat 120  
tcttttggca ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180  
ctcgattctt tccccggcaa acgccagatc cgcaaagctg gacggcatgt aaccactag 240  
cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt cttt 354

<210> 13912  
<211> 262  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13912

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agcgccaata cttgcttctc ttgtcacatc cttctttcga cttacacacg attagaatat 120  
ccaactcaat acttcatgat aaatggcgcg agaccatcga atgaagagac aatggagtca 180  
tcctccacca ctgatgctg ctgcccacga ccgacacgga ccatccggag caccacacgc 240  
acctattcat acctctatgt ca 262

<210> 13913  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13913

gacacataga tactcagctt tagccaatgg actaccttga atgaattcct ttgaatcctc 60

ttgagcctat gttccccctt ctgtgttttg aagctcatta caagccttaa gtgaaaaacc 120  
atgatatcac cttaccctta aagaattttg gagctttgga attgttttgg gaataagctg 180  
ggaataagta tgggggggtat gtttcattgg aagatatgat ttttggccat gcttaatgtn 240  
ttattttggc catgcttgat gtatatatat attgcctagt tctttcttta atattcaatt 300  
tcgtactggg caataaaaga aataaaaaat ccatagaatg aacaatgaca aataaatgca 360  
gttgctgcaa atgctgcaat ttcgtacttc aaa 393

<210> 13914  
<211> 180  
<212> DNA  
<213> Glycine max

<400> 13914

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gaacgaacct tctatataag cttgctaacc catggaagct cctaataatcg tccacactct 120  
ctgggggtggg ccattattgg atggccttga ttttctcatg gtccacttgg accccatttc 180

<210> 13915  
<211> 497  
<212> DNA  
<213> Glycine max

<400> 13915

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taatgcgcct gagtcggacg tacgagcgat tatggtacga tcattgcact tcctcgagag 120  
cgacggtggt tcaataacaa ggcgtctctat atataatgtg ccagaatcgg acctccgagt 180  
gaaatgttat gaccatacga atctctcgag agctaccgtc ggacaatacc gagcgcgccc 240  
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acagcacgct cagtcaagac caagggatct ataagaatgc gcctggatca acatccgagt 360  
ggaagaaaga cagggcattt ctaacagcat ccgtggacaa atcacgcgac tcgacaaaaa 420  
tcgactggaa cggacactca gaggaaagtc agaccgcgcg atatctagag aacgctcggt 480  
caaataacag cgcccgc 497



<210> 13916  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13916

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 gtaccttctg cagttgggta cctcatggct gattcaagct ttcactgccc atcctctcaa 120  
 attgaactct gactcatctc ttcttcttga gctataaaga agtgggttcag ctgttgaggc 180  
 catgaatatt agttagaaaa taattcanca gagtggaatg gcgttggtgt tgttggtgta 240  
 aataatcccc caaaagataa gaaaataatt attagcaagg atccaaatgc ataacctaca 300  
 aagcgcatac tgctatgaag ttttgggtca catcaccaag aatgctagaa tcctttttct 360  
 gaatatgtga agcatcaggc atcatttaac c 391

<210> 13917  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13917

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 cgggtgggtca gatgaagaat cacagagaaa ggaagaccaa aaagactaag gctaaaaatt 120  
 gcctttttct tactgtgtca aaaattatct ttacaagaat tatgaacttc aagtctgcca 180  
 aacagatttg ggattatctc agatcagaat atcaaggctg tgaaagaacc aaaggcatgc 240  
 aagtactcaa cttgngcaga gaattcgaga tgcagagcat gaaaaagact gaaacaatta 300  
 aaggctacgc tgaccggctg ttaagcatag caaatagagt gaggcttctt gggaaagact 360  
 ntcctgatga aagaatagtg canaanatcc tggtcactat acccgagaag tatgaatcga 420  
 agatatc 427

<210> 13918  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 13918

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accttgatgc tgctgccaac tcaatcgaac ctgatgttgt ttatgcaaag agagctcata 120  
agaaatatgc atttgagtct tacatatgcc aaagaatgtt cagtggctct gagcaagaaa 180  
acttctctgt caaatcagac aatattactg taactaaaga gagcttcttt caccaagttc 240  
tcgcattaag agagatggat cccttggaca tgctggg 277

<210> 13919  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 13919

caaaaaatcc taggttgaga tatttaggat caagaatttg tcaagatgaa aagagagagg 60  
agtaccggag acgttgttcg tcagatgaga acagtgttga agataacaag gaggggtggaa 120  
ttggtgctgg ggggtgctcca ttgtgttttt gagaattaca atcgggtggaa tcaagagaga 180  
attgaataag aagaagattg gaagttgtgg gagtcgattt ggtgcagaaa tgagagagat 240  
atgggtgttg gaagattggg gaataaaagg ggcgtcgccg gggttgagag ttcgtcaact 300  
gaagttttgt atttataggc gaggacgttc tgt 333

<210> 13920  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13920

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gagagggtta ccactactgg aaaacccgaa tgcaaatttt tatcgaggca atagatctaa 120  
atatctggga agccatagaa atagggcctt atataccac cacagtagaa agagtttcaa 180  
tagatggtag ttcatcaagt gaaagcataa ccatagaana acctagagat agatgggtctg 240  
aagaggatag aaaacgagta caatacaacc taaaagccaa aaacataata acatctgccc 300  
tatgaatgga tgaatatctc agagtttcaa attgcaagag tgctaataaa atgtgggaca 360  
ctctttgatt aacacat 377

<210> 13921  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13921  
  
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 agaatgaggg agaaacccat gctgtgactg ccattttctat acagccaagt ttcccaccaa 120  
 cccaacaata tcattactca gccataaca aacctttctcc ttaccaccca cccagttatc 180  
 cacagaggcc atcccttaat caaccacaaa gcctgtctac cgcacttcca atggcgaaca 240  
 ccaccttttag cacaaactca aacaccaacc aagaaatgag natttgcagc gaaaagccta 300  
 tagaattcac cccatgtgtc ctatgtgtgac tngctcccat atctactnga taattcaat 359

<210> 13922  
 <211> 159  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13922  
  
 agtcttcata atagtgatga ggtacaagcc ctaaaggcag agcttgaaag agcccagta 60  
 gtcgaagaga agttcaagtc catagccatc aaagtctgga aagagtatga tgaactaagg 120  
 gacgtcaata tggccaccgc tgatgccttg gaacgagaa 159

<210> 13923  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13923  
  
 agttaagctg ttgattcaga acacttcatt cttggtatac ttgcatctcc ttcccttgag 60  
 tggtgccaat gtggtgctag gagtccagtg gcttaaggct ctaagacca ttctcacata 120  
 ttacaacacc ctctccatga aattcttcta ggatggccaa ttagtggagt taaaggggga 180  
 agatgcatct accttgcacc tcctttctca tcccagctt cgtcgccttc tttgaaaaga 240  
 atggcgcgag tgcctacttt caca 264

<210> 13924  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13924

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 tccgtttaga cttagggatc aagggtcgct acgtctttga aagttatagt gcacaagaat 120  
 aaaaaacaat taaaaatata tgattataca ctgagtaggt tgaaaatata attgttnctt 180  
 taatgtgcgt atcattactt ttttaattaat taattaataa tttataagtt taattcttga 240  
 atactttaat tttcttatta aagatattgg tttataaatt aataatacgt ttgat 295

<210> 13925  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13925

agttgtatgg ttaagttatt atctagttcg atagntctaa tttttctatt ttcgcgtatg 60  
 attagtcatg tatgtatggt tttatatttc ttacgcactt tggctttttg ttgatgccaa 120  
 aggggggagag aaaaatgaat attttagaaa tcaagatatt atatttttca agacttcaaa 180  
 ttaagcataa attcaaaaac aaaggggggag aatatggaga attaagtgag tgatcgacta 240  
 tgaaaaagaa tgtgtatgtg tttcttgatt taagggttgt catcataaaa aaggggggaga 300  
 ttgtgaaagc aatgtcttcc aagggttaatt tgatgatgcc caagaatcaa g 351

<210> 13926  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13926

gctgagcgcg tgcttcaggg aaatagaaga cgagcgcgtg ttttgcaagc ttaacgcgag 60  
 ctntctgggag agggcggtct tagcgcgcgt gttgcaagct taacgcgcgc tattgttgga 120  
 tcatgggctc agcgtgtgac gcgcgctgag cgcgctata ggattgagct cgcttctgat 180

attcttcttt tatttaataa tttctgcctt tctgcttgct acacctgcac gtatgatatc 240  
 tgcaggctaa attcaacaaa tcatcaattc tctaaaatag aagcgcaaat acctgcgtaa 300  
 taattatatt taaagacaat atgtgcttat tga 333

<210> 13927  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 13927

agcttctcga tatattacgg gactcaatca gacatccgag tgagaaagtg atagtcagtt 60  
 gaactcgctc atagctgaca catacaattc tgagcggtac gatatattac gatactcaat 120  
 cagacatccg agtaaaaagt tattggcgcc agagtatact cagagcttcg cgattcaagg 180  
 ccgagcctgt cgatatacta ccggactcaa tcacacctcc aagtcaaagg ctattggcgc 240

<210> 13928  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13928

gacacttaga tactcagctt gagcaattca gcaaaatcac tttttactcg gatgttgatt 60  
 gagtcccgta atatatcgag acgctcgaaa tggaacaccg aatctctgag aaaattcaaa 120  
 cgacaataac tttntactcg gatgtcagat tgagtccaga aatttgtcaa gatgcttgaa 180  
 attgaagacc aaagctctga gcgaattcaa acgacaataa ctttttactc ggatgtgtga 240  
 ctgagtcccg taatatatcg agacgctcgg aattgattat cgaagctctg agcaaattca 300  
 aacgacaata agtttttact cggatgtctg attgagtccc gtaatatatc gagacgctag 360  
 aaattgaata ccgaagctct gagcaaattc aaacgat 397

<210> 13929  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13929

agcttggttg atgtacttac ccgttgaaga tcgaagagcg atgaagaacg aatgaagaac 60  
 gtcgaagaac ggtcaaaacc tttgcgaaag tcctcacggg aaacgttact gaaacgtttc 120  
 ggaagtgcct cggcttaaat tttcttcacg gaaacaatth ttccaagcaa attctaaaga 180  
 gagagaagtg cctaaggggc tgaacccttt tcttcttcac ttccttcctt atttaatagc 240  
 aaatangga gat 253

<210> 13930  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13930

tgcatagata taaacacana tgagagctat gatgtgttgc tttgatagag aacgtaacca 60  
 aaagcatagt aaaacaactt cagctgttga taccgtcaaa acaaccaatt ctctcatgtg 120  
 aagaatatgg aggcaaccac catgcctgtt actatatgga ggaagtagcc aaggaaacca 180  
 aattcatgag agaatgcact acaaagttag aagaaattgt aatcaacctt agcatcacat 240  
 cttactccaa cctcgagaac accgtgaagg taataaatth tttaaaagat caagtaaa 298

<210> 13931  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13931

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 gatagagtan nttgacatnn naccacgccg agaaggaaga acgaaatgag cananntcgt 120  
 ggtggggaac ccacgttntt aagcgccgtg nngctggnnn gaaggggcat tgnngaaata 180  
 nnggtcgtt cmntgatcca aggggaagaa ttatcttctc ttggcaaaat nntgggtctt 240  
 gcntttgacn ncattctctc cctttttgaa ttntcctcan agaaaaccct tcgccgatat 300  
 gagcagctac ttgcgtctgg gccattctaa ctgttgcgt agtctttgaa ttcaacatag 360  
 gtatataaca actacaactt tacgtctata actaactaaa ataccaatac tcttcttttc 420  
 at 422

<210> 13932  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 13932

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 tttggtgcag ggtacagttt taacccttta caaataattt agtcatgccca ttctttctaa 120  
 actgagctgt gaatatTTaa aatgtttgta tattcttttt tcaaggtttt cctccttatt 180  
 caattgataa gcataatcag cttcattaca tggctgaatg aatgtttgtga gtcagaaaaa 240  
 attgcagcaa gatggtaaga tttcatcagt taaagaacta acagaataac atgcttctctg 300  
 agcacgaaca atatgcttga gaaaatagta gctata 336

<210> 13933  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13933

atttaattta gtcggaaaaa catttcattt aattatagtt ttgattaagt tttcatggct 60  
 catgtaagtg atttttactt agccaagctt aagaaaaacta aacacttaat atatattgct 120  
 ctagcanaca taagcacaca aatattacaa tgaatcatca catcaaata gagggccactc 180  
 atctcaagcc tcattatcct tacacttact cctcacatcg acgccaatnt ctatgtgtat 240  
 ttggatgaca cttannataa acattatact attattaagt tatcacatgc ttt 293

<210> 13934  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13934

tgtcagatgt ttactactta acanacaaat gatcatctta atcactaagc gttttactta 60  
 ctgccaccaa atcacttngt aaactaactc atcaacatgt gagaaggatg atgaatgctc 120  
 agacatacat ttactaaagc ctttccttca ccactgttct gatgagatct ctgctgtcca 180

caca

184

<210> 13935  
<211> 516  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13935

nnnaacctag tcagcgcttg atgcccctta gtagnncnnt ttgatccatt tgagaccagg 60  
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ctatctacac acaccctctg tgtactcacc tcggctcctt gagaagcttc cttaatgatga 180  
ttcctaacga agctagagct tagctacgca tacctgtcta atagctaagc tcacctcctt 240  
gagatgagaa gctagaactt agctacacaa cccctataa tagctaagct caccctcttg 300  
actaataaca taacaatata aaaaaattcc ttactacaaa gactactcaa aatgccccga 360  
natacaacgc taaaactcta tactactaga atggccagaa tacaaggccc aaacgaaaga 420  
gatacctatt ctaatatcta caaagataag cgggctcata cttagcccat gggctctgaa 480  
tctaccctta ggctcatgag aacactangg cctctn 516

<210> 13936  
<211> 387  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13936

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gcanaactgg tcatgcatgc acctatgcgg acactcaagt gtcaaatttt tatgggtcatg 120  
tgatgctacg gctcaagatt catttcctct attttaatca acccaatggt tccaaaatat 180  
gttcttttat caatgtgtgc attcatccga gtccatttca ggcgtccgga gaaatttcac 240  
agcattcacc cttcatgtgt agacacattn tccaaaaatt gattatgatc aatgaatggt 300  
ttcacagaaa gggttgganat cgtctctttt caaagcatgt tggtttttca gcttgcaact 360  
taatnttttc tttcttctcc ttccttt 387

<210> 13937



<211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13937

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aggatgtgaa ctgatccctt tggaanccgn gtgatcgctg agctactgaa ncccagagnn 60
gacagcgagg ctgccagget ccttttgggtc agatcgaagc ggggttcttaa ntttggcgcg 120
ccaaccgaac ggaccgggga gagagaccga ccacacaaan nccccgaac caacacgcgn 180
cgcaaaccga gcggaaggcc cnacaaggac cgaagagaga caaccggggg aaaaggcaca 240
cccagggaaa accacgaagg cggccaaagg acaacaaaaa gcaccgggaa aacgcaggac 300
cccaaaccga accacagggc caaagccaag aaccacccaa agaggccaag acgggacggg 360
gcgacaggac acacgaacca aggaancaag ccgccaanc caccaacagc agcacacgaa 420
cggaccgagc aacaancccc aagcgccgcc gcgggncagc aacaaccgca ccggccaaaa 480
ggaacacagc cggaacacg 498
```

<210> 13938  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13938

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aacacagnca taacaatgga gtagcgagat ataagtatca gagtattaaa tacaataagc 60
caaactcata atcaataaaa taatcaaacc agaggtcaca taacataaaa tgtcaacaac 120
cacaaaatat ccaagactga cacacaagag aaataagcag agtacttagc atactaatgt 180
acattctaag agactaaaag ccaaaatata cggtttataa aagataaata agcagaatct 240
acaatctaag aagactgagg aggtggtgga agatcaaaac tctgacgaat gtatccgaca 300
tcctcttcaa gctgtgtaag acgaatgtnc atacctggca agcgtgaatc taacgagtca 360
aagctgtcac cgacatacga ac 382
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<210> 13939  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13939

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cncagacang acccgggagg ctctaagtcg atttgaagtt ggaacaccat tatattcctg 120  
tgtagacca cgctatgggc gcgagagtgg gccctttctt cccttcgcaa ctggagtaca 180  
ttattgctac cccatagagc tccgcgaata tgggtcgggc catactcttc ctggtgagcc 240  
ctcttgctgt ctagtccaag ggctctggcg ggaattgcat tctcttcccg taacccggca 300  
cactccttcc gaacgtgtgt agcagccaac ttgaacttct ctttggcgag tttggccttt 360  
cctaactcgc tattgagagc ttggacttat tcttcacgtg cagttgctta aaaataatct 420  
tgctgacaac gtttaactcg gogagccatt ctaaacctcg tatgcgacct gtcaaccatt 480  
cgtgggtacc aacaatgatg cct 503

<210> 13940  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 13940

gcttgagggc gtgccacat cttgatagta gagatctgta atgtgtctac catcacgata 60  
tcgtctccct ttccatcatt ggggtaccac ttgggcccc aaccctcccc tttaggcgtg 120  
actttgaaga tccgtcccc tttctcaaat gttctatagt tgcacacctat ccgaccatat 180  
caaaattgtc tgatactgcc tacaaggaac cattagtcct tcaaaatggc tcggaagatt 240  
caagttatgt ccatgtacag ctccccgaag actttttgga ggatgtttac aatcctctct 300  
ttggtattcc ccatttctga catcatctta 330

<210> 13941  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13941

acatcgacat gattgtcttt gccaaactgca aatnctgaat cgggtcaaaaa aatgctcgcg 60  
agtatgtcat ggatgcctag ggtagtctgg ttgatggctc ttctgaacag cagttcgctg 120

agtgcccttca gaagtttcaa atggcttgct caccttggt aatgttcgtt gactatgtta 180  
 acgaaaccta gatactccca cacaagagan gatttattac agcctgtatg aataagggtga 240  
 tgcacttatg caacacaaca acaaacgggt attaaaatgt tacaattttt ctagtaatgt 300  
 ctatttaatc atggaatga attgcagcct atttta 336

<210> 13942  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13942

ctctgagcac atacaaacga caataacttt ntactcggat gtacgataga gtccttcat 60  
 atatcacgac gctagaaatt gaacatagaa gctcagagca aattcaaagt acaataactg 120  
 tctgctcaga tgaccgagtg agtcccatca tatatcgaga ctctcgatat tgaatacaga 180  
 agctctgagc atatgcaaac gacaatacag tttgagtcgg atgtcaactg ag 232

<210> 13943  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13943

nnnnccata gaagactgat tgntanttag tactaccngg ctaatttcag ttgagnaccc 60  
 gcgatcctnt agagnngccc tgaggcgatg cagcannggt ttttataggc agcaccgaca 120  
 agttatttcg nggggacgag accacgcacg gggngcgtag cccgaannca tggaggacct 180  
 ctgagcattt tcaccgacaa taacgtgtta ctcgggatgc ttgattgagt ccagcatata 240  
 gcgagacgct cgaaatggaa tgttgaacct tttagccaat ccaaccacaa taaatcttaa 300  
 tcggatgtct gattgagtcc cgtacatata gagaccgctc gtacattgaa tgtttaagct 360  
 ctaagccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccggaatat 420  
 aacgagacgc tcgaaattga atgttgaacc tctgagccaa ttcatacgac actaactgtt 480  
 tactcggatg tctgattgag ttccgaaata tatcgagacc ctg 523

<210> 13944

<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13944

nacgggtctgt ttaagctnnt annnctncgn annnnncagn cccaacnttg gagacaaggt 60  
ggttctccct gataaatata aaaaaaatg gcagagcaat gagggggagg aggccggccn 120  
aaaagaaacg ccgcaaaaaa aggcgcacag catcaacatt gaatttcgag cgtcacgata 180  
tatgacggaa ctcaatgaca catccgagtt aggagttatg gtcattcgca ttggctcaca 240  
gggtgcaacat gtaatctcga aggtctcgat atattgcggg actcactctg agattcctaa 300  
cacgacgaca ttggggantg aattggctca gacgttcaca tgtaattcga gcgcctcgat 360  
tattatgggc tagaaaaaca ttcgagaaga aggattgggt ttgatatgct aaaggtgcaa 420  
attaattcga gcggtggtgt ttatggacta cattgaatcc agataaggtg n 471

<210> 13945  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13945

tgtgtcttc gtatatggcc acctgataat cctatcgaaa agctctccac ctgcacataa 60  
ttccatcaca acatgaacag ccacggcatc cttatatgca cctttgatgg atataacatt 120  
acgatgcccc gccaaagtgg gcattatctg aatatctctt ctcacatcct ccacatcatc 180  
atcgggtgacg agcttcctct ttgcaataga tntgcaggcg cactccagcc ctggtgcctt 240  
ttccacgcac aagaacgttg tcccgaactg accctgtcca agtttctccc agagtaaaga 300  
actcttgaia tatcgggtctc tctttgaaca cagaataaca cgaaccct 348

<210> 13946  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13946

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tgtgaatcaa aagacaggaa caggatcgct ttaagcgatg atcaaatact gtgccaaatc 120  
 caagacagag atgaaccgag gtaagtggta gcatagccac atttttctac gcaatgtcat 180  
 ttctgtttt cagggtgctcg agaacgggta caagtaaacg ctaggcccgt gatcagcgaa 240  
 tcatcgctcc acgtccggt ccgagtgatt aggaagcacg actgggaggc agcctagtat 300  
 cctttaaata tctgcctatt atcattttta tttctctaag gagatgatcg gatatgccta 360  
 acttatccta tgggtgtcga gtaaacgagc accgacccat agagaacacg tatttt 416

<210> 13947  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13947

tgctaaaaca gaacattggc atagcaaaga tcaaagagta gtgggttaaa acctaacaac 60  
 ttcaaagaga acatagtgtg ctatgaacac ttattgaaca aatcaacatg ggtaacaact 120  
 tccaagttaa agtcttctca aactgcctaa gcaagtccca agtcctttaa cacttcgttg 180  
 cccatcggtg tggggacaag ggtgaaataa cattangccc acttgctcac aagtctcaaa 240  
 tggttagaac taagtcctat atacatgctc tggcaacatg agctacaatt cttaaa 296

<210> 13948  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13948

tgtaagtggg tcatgatgaa gcagaatata aactgttgga tttatctatt ttatatggnn 60  
 ccaatggaca ccaatcacac tagatttatt gcttccttcc tagcaacctt ctgataacca 120  
 tttgctgttg tcgaagtcaa tttctggcaa cagaattttt ttaaattctt tccttaccac 180  
 ctttgttctt tttctctccc atcaatccct tgtcttcgac tgcaactgtc tttcacaaaa 240  
 tattggcacc cctaaaatat gaaattaagg ccattccaag attgacaagt gaaacacgac 300  
 ataaacatca aaagtgatgc gtatgaccaa aagtgcattc aacatactaa tcttcaacac 360  
 acatacagaa aagtgagata gtacaaa 387

<210> 13949  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13949  
  
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 tcacccgacg aagacactga caaaaactta tcttctcctt cttggacaag gtatggcagg 120  
 ctgggggcaa gtaaattttc ttcccatcac accttggatg caattgtgat cgtataccca 180  
 tatcagctag atcttgatgg gtattcaagc catccttcgt cttgccttga atgttaatga 240  
 gogtaccaat cacattgtca caaacatctt tctccacatg cataacatca atacaatgtc 300  
 taacgtcaag atcacaccag tacagaagat caaagaaaat agacctcttc ttcatatgca 360  
 actctgactc ttatccttct tttgggctta ccaatac 397

<210> 13950  
 <211> 614  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13950  
  
 cccgcctgtc gatgatncca nagtcagaag canntnccag acaccncaca acnacncaag 60  
 ccgtgagacc nncaagcgcg caggagagac aagaagagga agagatatga nttctccgcc 120  
 tatgtcacca ggggcncgct agagttnnac aaagtgagaa tggatacaag aggacaaaan 180  
 cntatagcac aagctctcgt ccttcacgac cagatcacat agacagtcgc acttttacac 240  
 ctttgttgca taacgaatga gtctcagcac cagaaagatc gtgtaccoga atacggcaca 300  
 tttaccaatg tgcgccacta ctcccaaat ttagcacgct acacataggc gcttgagggtg 360  
 gctctactct agtgagcgag gtatgtgtta tcgtcatcta accactagta ccacacgctc 420  
 tctgcagtag gtctcgaagc atgaaaatac tctatgcgac agagtagagc gaagctttta 480  
 cctcccatth atccccgata tttcaacagt ggctatccaa ccctctagag tgatctttgt 540  
 tcccctaata ccaaactatt tccactctct atcacaaagg aaatattacc ctttgtctct 600  
 tacaatatca aacg 614

<210> 13951  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13951

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 tacacttaaa tatgacatac cagttgtttg gtctcccacc attcatttgg tgcataata 120  
 gtgttcctga tattgtctca tcctaaacca gtttcttttc taaataattt gtatcataca 180  
 caccaatctt ttctcaagtt atcatactta ttttttaatt gtgccttggt ataagtcctt 240  
 ccagttaatt gtgtaaactt ggattgaata cctttccgcc ctaccttagt aaagctagaa 300  
 ccaaggcggt cccctctagt aatatgctcc aaacataagc ttcataaaag ctgcatttgc 360  
 ttttggatcc caagtagctt tttctgtgca atattttgtg aaagatcgca atagctattc 420  
 tctaataatac tcataatcaa ataaat 446

<210> 13952  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<400> 13952

aaggccgact gtagcacctt ctgactactg tcacaagttg gacttttata acggcaaccg 60  
 aactcgtct gcgatatggg ataattactt agactgcgac tgaaac 106

<210> 13953  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 13953

cctcatgcac tcctctcatg actatggcat cattactggc gctcaactgc tcacaagagg 60  
 atgccatctt ctacaacaaa ggtctgcgct tcatacagag tcatgtgacc tacggctaca 120  
 aactcgcag catctatggt acttctgaac atattactga gtactcccta aaaatatagc 180  
 agaagaaacc gttctgaaat ctgatggtga gggcgaccgg cacatagctt cttaaacttc 240

tcccagtact aatacaggct ctatccactg atcgtgctaa tacctgacat atctgaccag 300  
atggctgagg tcctggaaca tggaaaa 327

<210> 13954  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13954

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aggcatgaat attatgacat gtttgagagg ttgttattac aattttaaadc tggctgcccc 120  
atgaggaata ccttgcacct angtagcatg gaaaatacct ttcaacggta tgtatatatg 180  
taaatatata tagcatggaa atgccttgca aaatgttgaa taaaatgcct tgcagaaagt 240  
tgaataaaat gccttgcaca atatgaatat atatagcatg aaaatgcctt gcataaatatg 300  
aatatatata gcatgaagtg ccttacacag tgttggatgg gtagcgtaca agtgtttttc 360  
aaaatacgtg tatttgcgag taggtaacag aagaagcctt ccanacaatg tgtgtatata 420  
tatatgatgt agcatg 436

<210> 13955  
<211> 287  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13955

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aaatctaccc taaggctcat gagaactcta gggccttctc ttgcatctcc agtccaatct 120  
tcttggagtc ttctatgcaa tgcccttgct atgtaggata gcatcacttc gaatgctttg 180  
agatgtacta catacccagg gagagaaact ccatatctga cttgctctcc aagctggcca 240  
gctccaccag gactgggcac cttatgacta tcgtccacta gatgctc 287

<210> 13956  
<211> 449  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 13956

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ggtttgaaaa gtgaaattta gaatgaggta aatttgaaagc aaactctcac ctcacaccag 120  
tccataacat ccatttagac ttgttcaaac tggatttaca cctaaaatct caccgaatca 180  
aaatttgact cttcaacacc caaatttgcc ctagaaatgg ctctttgttc actttgggtca 240  
tttatnttct tctctagcac agtccaagct ttctcataag tcctaaatga aatttcaagc 300  
tagtattaac tcactttaac ctccatttac cacagaattc agacttagcc ttccaaccct 360  
caaagtctca ctctgtttcc actcataaca tcacattctc acttttctaac cctangttag 420  
ttctaccctt tgtctctaac agatttgta 449

<210> 13957  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13957

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agaaaaggggt acaattggat ttgaagaatt tcataagcac aaatggagga aatggggtga 120  
aacggatcgt aatacttctt ggttttacgt gatacgcttt actaaaatgg catacatgtc 180  
ctaatttagt tttttcaacc attcattttg taaatccgat aagatatata agtttaatat 240  
attctta 247

<210> 13958  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13958

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atagcattgc acacgaaagc aaaataacta taatatataa ccaaagtacc aaacgggttt 120  
ctaaactaga gaaacccagg cactaaatca tatacaagga ggaaaaacta ccagattagc 180  
tgcaatgggc cctttagtgc aaactattac actatttgaa gtttaatatnta ctttcagcca 240

tgggcaagaa cacattcaaa caaagtantt caaatTTgaa ctaaacaact acaatgaagc 300  
 aagagtGcaa tcagattcac aaattattgg ttggaatcat acatataaat tacaagcaca 360  
 cactagttac atatttcaaa ggtgaaaagt gaagagtaca gtgatatact acattattcc 420  
 tgtaaaaat 429

<210> 13959  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13959

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 tcttgcaaaa ctgttattgc ttgccccaat gtggacactc aagtggcaaa ttttaatggt 180  
 catgtgatgc taaggctcag gattcattcc ctctatttta aatcacccca tgttttccaaa 240  
 atatgttctt tatccattgt gcatcatcca gtccatttcg gcgtgcgggga atatacagca 300  
 ttcaccttag tgtagacaca ttttaaaatc gttatgacaa tgaatttttt caagaaaagt 360  
 gaaatatctc tttcaaaage tgtcgggtttt aactgacaac tattttct 408

<210> 13960  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13960

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 catttattat gttaactaaa gagcaaattg gagatnntga aaaattgctt tcaaagtgga 180  
 acctgaatgt tcagattgca ggtacattat tcaatgggga gcgagatgat cggaanactg 240  
 gtgatgcaaa gtacagtgat ctcaaggacc agtttgaaca ttggaaccac attgctcaga 300  
 tttggaagca tcccacattg aacttgcaat tcaatatgaa actgcacagc aacttctggg 360  
 tgatattc 368

<210> 13961  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13961  
  
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 tgcttcaaca cagcaaggct attgatggca aatccaagcc aactagcctt ctgtagcaca 120  
 tcttgatcat gcacccctctg ggaccaccga agcatccccc taaaaacccg taaaaccctt 180  
 gatattggca caactgccaa cccgcagatc ctaagccttc tagatttgag aaaaagtaga 240  
 cacttgacta caaaggtgct atcc 264

<210> 13962  
 <211> 116  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13962  
  
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 cataaattac tgggaagtgg tcactacggt ttttggacct gaatttctac ttgaat 116

<210> 13963  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13963  
  
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 tcanaaagaa cctgcagctt ccaacctggc cttaccttcg gattccaagg ttctatangt 120  
 gtccgcgcgg cctaacctgg accatgaacg ctatgggtggc aaggccgtcg gccttctgat 180  
 tttcctctct aggattgtga tgaaaggata tgtcttcaag gaatcctatc acctccttga 240  
 tgtaagcctg gtaaggcacc aatttatggt ctctgggtctc ccattcaccc ttcaactggg 300  
 gaattaccaa ggccgagtc ccgatatact ggaccaactt gaccttgaag cgaatggctg 360  
 cttggatccc anggcacatg ccttatactc nctatgtcgt tatgcagttg aaaccacact 420

accctgtaaa gtatatatng tcgtctggga aaccatactg cccactcca tggctantgc 480  
 atanacgtgc gtcan 495

<210> 13964  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13964

ggcatagtcg gtcagtgaga ttctgtgatg tacctaaaca ggcgagctcc tggcagtcaa 60  
 cagataaaaag gaacanagac cacanagcaa ggaggcttgt ggtggctggc cagctgtgaa 120  
 atttgtgtga tatgtggatt atggcctctg gtaatcgatt accaaaggtg ggtaatcgat 180  
 tacaanggct taaaatgaag acaggaggct aagatggctt ctggtaatcg attaccactg 240  
 ggtgtaatca atta 254

<210> 13965  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 13965

tgaccaaggc tggctcagcg tttgaagacc ctccgctttt gacagattaa tactattaaa 60  
 aatgggggctg ttaaaaagaa ctatgctagc agttactgat aagaaagtac aggtatgctt 120  
 tacctacttg ctctaaaccg atggcgccct gtcacctaaa gctcgctcat gggctgcgta 180  
 tgaaaggcaa taatagtgtg tatgtgtaca ctttctatga cagcgagttg ggaactctgt 240  
 gcttcac 247

<210> 13966  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13966

ctcaattaaa tttctggctt cagcaagagt catgtatcga aaggctccac cactggcagc 60  
 atctatcata cttctctcca tattactgag tccttcataa aaatattgga gaagaagttg 120

ttctgaaatc tgatggtggg ggcaactggc acatagtttt ttaaatcgct cccagtactc 180  
 atacaggctc tctccactga gttgtctaata acctgagata tcttttctga tggctgtggg 240  
 cctggaagca aagaaaantt tttctaaca tactctctta aagtcattccc acctcgtgat 300  
 ggaccttgga caaggaata c 321

<210> 13967  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 13967

ggcgaactag cttgagcgta tcatgaactg aacaaggcga ggagcgggat tagagagacc 60  
 ttccctgagg caagaagggg aacacaaacg cccaaaggaa ggacggaaca agcagaggag 120  
 ccagaggaca cagcaaccca aggaggccgg ggcccaggac aaagaagaga cgaaggcagc 180  
 caacagagaa aagagaggaa cccacaccag gggacaaaca cgacaaacaa aaaaagggaa 240  
 ccaggaacac gaaaaagaag aggcaacaag g 271

<210> 13968  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13968

nccccgaaa ctgnnnagnn tactnantna gcaaaanncg aaaaggaang aggcgggctt 60  
 agaaggagag aagaaanatt aantttctcc ataaccggc cacaccgaga gggttgttaa 120  
 tagatacaag cgtccaccac aacaacaach ctaaaatgat catgcaacag aaactacggc 180  
 ttgctgagac tgtagtatcc tcatcaacta tgctctattc tgtgtacgta aaacccatca 240  
 gatatccgac agaggtgctt tttataaacg aatctcccag ttcaaagagc atgttacatt 300  
 ttccatgggg accaagacac ccgacaacgg gtgctgctgt tgccaagatc tcacgaccaa 360  
 atagaccatt gatcatatta gttattgtgg acgtcactat aactcgagcc acctgaacag 420  
 ctgtcaacga ggtggatgca caaagaatcc ctttgtgagg taaagctctt a 471

<210> 13969

<211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13969

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aggggctgtg aaantttgann ccccttttagg agacacctga tgcgactgan atcatggaaa 60
tcgaccacgg acccgggatc ctctgagtcg acttgangca acaagcgcac gttaccttat 120
tttacacngn cggncancgc gtgttgtcaa tggcacaatg cccgctgaga aatatcaaag 180
gggctatata actaccagac gctgggtactg ctcggttctat accaccctg cactttactt 240
tgactatgtc ggattacgag atgtccgatc ggagacatac ggtcatgctg ctttgtgata 300
cctcgctctg tcattctttat ctggccgact tcagctggca ttatagggat caatatcggc 360
gaatcatgca tctagcccat gtgggctaac gtcttcgcgg ctgatgatat gagagcatgc 420
cacagtcggc cggaacacac tctcgaacga aaaacctatc cgtcctacat tgtgaatnta 480
gangctatac ccgacagacg ggacctatct 510
  
```

<210> 13970  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13970

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ntcagcaact tcaaacgaca agaacggatg acgcggatgt cttatngatt tccgaanaca 60
ncgagacgct cgaaattgaa tgttgaagct ctcagcaa at gcaaacgaca ataacgtttg 120
actcacaggt ctgattgcgc cccggagtac attcagacgc tcgaaattga atggtgaagc 180
gatgcacaag ctcaagagac aataactcta ttctcagaag ccatttgagt ccagaaaaga 240
gtcggatgct tgaaagcgaa tgtcgaagct gtctgcatac tcacgcggca aataccttgt 300
actcggac 308
  
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<210> 13971  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13971

ngggacgtgg caaatgatnc ccattgnagn tcnnatgatc tatggagenc agnggaaatc 60  
 atctaggacc nnnnannenc taannencct tncggcaggc ancangattt ttaacngagc 120  
 cggcggggcca aacacgcacg tggatctcta ttgagaaaat gacagctgac ctctgaatct 180  
 catcgataga gatgcgacga aatacttgag tgactcaaga acaccctgac tgtatgaaat 240  
 gaccctcgca acgtaccagt gtagccctcg ccggacacac tgaacccttc cttccgtgca 300  
 tcatcaacgt cgtctcttac gaccactatg ccagacaagc cattgctgcc catagttgtc 360  
 tggaggccat agctcccgcc tatgcatcca tatgaaggat tgtcgaccta cccagccttc 420  
 acgaggagag ctatcacctc gggttgagta cctaactctgg acaccgcccg ggagtagcgt 480  
 atacctcctc cagc 494

<210> 13972  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13972

ccatatgaag cttagacacc tctacacaca naccgagctg cagccggccg cgagacggag 60  
 gagatttcgt gttcccacag caacccgcca tggaagcacg gacacaaccc aaagcgagag 120  
 agcgcctcac tcggaaaacc tggaggaaga cgacctccgc agaccttgat acaaggggga 180  
 agatgttcaa gctgaaaaaa gacggagcat aagagggggc accaattccc gggagaggaa 240  
 accgcctgga atgagccgaa caatgagctc aagaccacac cgccgcgtcc catcaaaacg 300  
 agggcccgga acattccgga tagtatcaga acaagctatt caccaccgcc tgagagggga 360  
 cactgaacct ctag 374

<210> 13973  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13973

aggggcgggg gtttgatncc ctttgagggt caatgatcta ctganccctg gannatccag 60  
 cnaggtcccg ggatccttag agncgacttg aggcaggcaa gcgaggttaa tataatgcgc 120

ccgaacccaaa cgnngggacgc gggacggatg acganatcac acccccact gtcggccgtg 180  
 tgacaggaaa gaaccataag aagctctcga caacgtacgc attgaaacct tgggcgtatc 240  
 gaccagtat gcgcacccaaa tctgtaggat cgtgtgacaa cttagactc ccaattatgt 300  
 acccacacgg tggaagatgt gcaggaataa ctcgagacga cctgtggtgg aaaaagaacc 360  
 atactttcat cccgagggcat ccacctttga ccaaatacga gtttgggacg ggaacccaaa 420  
 aggttggaca gcttatacaa ctcgagcga tggcgccgct ccacgaggtg ctcaaaaacg 480  
 ggcaacggtg ggcg 494

<210> 13974  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13974

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 gagagagaga gtgtatatattt attatcaaca agcaccctccc gagagcgtgt ggctgatcag 120  
 ttgaacagag actccaatgc aatgcgccta gatcgagctt gcgacctcaa acttgagaat 180  
 acgaagatca tgggccccctt ctttcgcata ccaagaccgg tgacttaaaa gattggcgga 240  
 agaacgacta ccggaggcta aggaaggctc ttggaactat ataccaatgg gatgtgtgca 300  
 aaaacctggc tgagaatacgc tgtctcgagg accaagtagc ctttattgag ccaagtccac 360  
 cctctgttga cagtgcacta ccgaactgga gctatagtgt gtcctgcga agacttataa 420  
 tcccttaccg atatcgtgtc cgactcttta atattcaaga ctcggcagaa tggaacgcga 480  
 cttggttg 488

<210> 13975  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 13975

agctagcctt ttgcaagtgc catttggtccc atgtaatgaa ctacatttcc actatcagtg 60  
 ggtcctaagg agatggagga aagtgtttct acaagagatt gttgcaatgc ttccaagcct 120



tgagataaag catcctcagc ctgctgggaa gactgttgca gattataaat tcccatcaac 180  
 tgctgatctg ttaatggctc aaggtgggtc ttgatgatct gaactccaaa agacgagaaa 240  
 tgagtcaaca acaaactata tacacaagtg aagttactag aaaatggaag tacttaattg 300  
 gcaatcacct tgagaagttc ggatgaacgg aatccaccaa gccacataaa acatctttcc 360  
 acaggtgtct tccacatccc attatgtatg tgtaatacat ca 402

<210> 13976  
 <211> 95  
 <212> DNA  
 <213> Glycine max  
 <400> 13976

ccttgaaata tacatatgtc ttctctaattg acttgcaaat caacttcaat caaatcccat 60  
 gcaccaaacc catgttatcc atgacattca acacc 95

<210> 13977  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13977

cntgatata agcagncccg ggtatatgga ttggcaatgg aataaagcct ttgatgtagt 60  
 tctcaaagtt tcctaaaatc tcagagacta gtggatcatc tggattaata ttcagtatgc 120  
 gcttcatcat aacattaatg ggaaactgtt tcacttgaaa gaaaaataaa tatcatgtgt 180  
 ttgaaattga caagcaatct ctttcttagc aaaaactcta aaaagttgga aaaagtgggt 240  
 atttctccaa cataagttga actaaatgca tattcaattc ttaaaatacg attatatata 300  
 tagttcttct atttcattgt ctgcaaaata ctataagagt agaagaagga atccctttga 360  
 aacactgagt agagacaaat tagcaaattg atggcaccat accct 405

<210> 13978  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13978

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aagataaaag ggatgccccca cattattttcc atgacacaaa tgcaaaaatg atgatttgga 120  
aactttatgc aaaactgggc atgcatgcac ctatgtggac actcaagtgt caaatttttt 180  
atggtcatgt gatgctaagg ctcaagactc atttcctcta ttttaaatac acccaatggt 240  
tccaaaatat gttcttttat ccatttgtgc attcatccga gtccatttcg ggcggtccggg 300  
gaaatttcac agcattcacc cttcaggtgt agacacattt tccaaaaatt ggttatgatc 360  
aatgaatttt tttcaaagaa aagttggaag tcattctctt tcaaaagcat gtcgattntt 420  
tagctagaca acttattttt ctctttttcc catttttttc ttac 464

<210> 13979  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13979

tttancttan antccaccag catcaaggaa tgaggggcggg tgatggaacc tctccaaatg 60  
caagcttttcg gcaagactta tggaagatc ttagaattga ccttagcaga ggtatccata 120  
gaagccattg catcactcac ccaatactac gaccagcctt tgagatgctt cacattcgga 180  
gacttccaat tagtaccaac cattgaagaa tttgaggaaa ttctaggatg tcctctcggn 240  
ggaagagaac catatctttc atccgggtgt ctcccctctt tgagcagaat tgcaactgtg 300  
gtcaaggatt cagcaagagg tttggacagc ataaaacaga ctcggaacgg catggcgggc 360  
ctaccac 367

<210> 13980  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13980

tgtaagaatt tgtgatagtg attntgccgt agatgttgat gttttanaag tactaccgga 60  
tttgtatttt ttatgggtga ttgtgttttt acatggagtt ctaagaagca agacattgtg 120  
acacttttta cttgtgaagc cgagtatgta gctgcaactt cttgcacatg tcatgccatt 180

tggccttagaa gattgttggg ggaacttcag ttgttgcaaa aggaaagcac aaagatctat 240  
attgataata gatctgcaca agagcttgcc aagaatccgg tgttccatga acgaagtaag 300  
tatatatata caaggtagca ttccattaga gagtgcatta ccaaaaaaga agtagaattg 360  
actcatgtga taactcatga tcaagttgcg gatattttca ccatgcctct caa 413

<210> 13981  
<211> 502  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13981

agggctgtta naactgattg ccattgggaa caccocgtga nntcagctga tagctnttgn 60  
ancncncaga gccgaccggc aggcttccaa ccttgatggg cagggattta atccaatttc 120  
caaacatctc cttgtccttt tggaccttgg ggaaggaac cttccagga atatcccacg 180  
gaggcctcct atcctcctct atatggacct ttcttggaat tcaaagtta gtaattcaac 240  
cgtattaaag acaaagggaa tttgaataaa caggacatgt gcactttcct ttctgtgatc 300  
cccatncctg agagactaga cacatgattt atcgtatgac agtgtgtata ttgtatgaac 360  
aaactagatg ctactaaata agagagctga cactagataa aatagagcaa ctctatctag 420  
ttgtggcgat attccttaac ataataatct ttgtcacttg tcaanacacc atagaatata 480  
aataattata cttatgttat cn 502

<210> 13982  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13982

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tgaagaatgt gacttttggg aatgtttttt tcaaaatcag tcaactggtaa tcgattacca 120  
ttaaggtgta atcgattaca catcaacaga tgtgacttca ttttgaattt tgaaaatctt 180  
aacattntaa aacactggta atcgattaca tgattatggt aactgattac agctttgtaa 240  
atcagtttga aaaaaatgct ggctactggg aatcgattac taccttctgg taatcgatta 300

ccagagagta aaacactttg gtaaaaaatt tggtgaaaac ttcattgtcct actcaatggt 360  
 ttgaaaaagt tnttagtact tatcttgatt gagtcttctc ttgattcttg aatcttgagt 420  
 cttgaatctt gatcttgatt c 441

<210> 13983  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13983

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 aggagccaac nnggtgtgag agacaaactt angcccagcc ggaaacacag gggcccaggg 120  
 aagccgccaa naggcccaag cnaggagaac gaaancccg gacacnaacaa ggcaacgcga 180  
 gcnaacgaaa nnaacacaaa caagcacgga cccaacaaga gacaagaaag ccnccngca 240  
 acanacaacc anggccagga gaacaaccna ngaagnggaa ccagaaagac aaccccccaa 300  
 gagcncnaa ccgggcanag gcggcaccag gacagagcca canccgcaag acgccaccan 360  
 gggggcaaca cccaaggaa ccnngaccag gacagggacg gcaaggcgca aaacacgccn 420  
 caacaccnag ccagggganc ncngag 446

<210> 13984  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13984

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 taaccaagct tgaccaatcc cgaccaacc cggcatagtc agtcagttag aacctgtgat 120  
 gtacctaaac aagcgagctc ctggcagtc acagataaaa tgaacaagga ccacaaagca 180  
 ttgaggcttg tgtggtggct ggccagctgt gaatcttggt tgatatatgg gttatggcct 240  
 ctggtaatcg attaccaagg gtgggtaatc gattacaagg cctaaagatg aagacaggag 300  
 gctaagatgg tctcttgga tccattacca cggggtgtaa tcgattacca ggctt 355

<210> 13985

<211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13985

aganactgta gaacctggat gacaatttgt ganaccnngt gattccattg tagcccctgg 60  
 gancctctgg agccaacctg aggctggcag gctggacttg gcgataggan anaagcctan 120  
 nattacatct taagaataag ccaatggagt taggatggag aattcccaca gagacaaggt 180  
 ccgatggatt ttggtgcttc atttaactan agaatatatt cttttatcat aatataataa 240  
 tgtaacctct tttttttaat ttccaacgcg gttatggccc gaccaaacgg tgggaatcct 300  
 ttttaccaaa aattaacgaa tactacaatt caaatgatcg gtggatatgt attttttaga 360  
 ttaggcgcga attgacttaa ataatggacg gaagcacgtc aaaaggtggg caagaggaaa 420  
 tgaaacgaga ttaaagttcc caaaaaaatg tggacaccac gggtcaggaa tgattgaaaa 480  
 cttgttcgaa actaccggt 499

<210> 13986  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 13986

caatcactact tccactgttg ccacaggttt gggtaaattt ctggtatgct gtgggaacca 60  
 attccaaatt taattttgga aactatatct tttgatcaaa ctgttaagca ttcagaatct 120  
 tttgctatca aattacccat tgccttcctt actgtattgt gtggcattat gttcagtcag 180  
 cateccaata tgttaaacta cactgactct gtgatgaaga gagaatctcc tctatccctg 240  
 cattacaaac tgggtgaagg gacacatgtc ccagacattg tctcgacatc tgtctcgaca 300  
 tcag 304

<210> 13987  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13987

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 gacctctaaa gccaacctgc agccttccag ctctggattc gttatatcca ggagagttca 120  
 cataattatc tccacacgga ccaccacttc cacagtggcc aaggttcctt ggaagatcct 180  
 ganaccctc ttgaaggacc ctccaagggtg agatatgtcc aatggcacct ttggcctcca 240  
 aaattcgaaa ttctgaagat gaaggaggag aagggtttcc ttgacttcca catgaccatc 300  
 cttgaaatgg ccattgctgg ccttgcttgg ggagaaagga tgacagatga naagctggtg 360  
 agaagatcct cagatctttg ccttagagat ttgacttgaa agtcactgca ttagaggagg 420  
 cccaagactt ttgcaacatg agagtagatg aactcattgg gtccttcaaa ccttgaccta 480  
 ggactctcgg atagactgan aaaagagca 509

<210> 13988  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13988

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 aaattttaat cttaaataata taatcatatt aaatatTTtag agaaagaaat ttaccgtgta 120  
 taataactct atcgtctatg attttaattc acaaaagatt tcaatcctaa gagcaactta 180  
 atagaaatac actacactac ccaaatatac atgggtggat ctagctcgac agatatttat 240  
 caaaataata ataatacatg tcgtcttaat cttagattat tattgattat gtaggctcta 300  
 gcttctctta anttttttcc tatcatgcat gntcctttg ttgggtggtg tggtggtggt 360  
 attattatta ttattattat tattatcata gattatg 397

<210> 13989  
 <211> 148  
 <212> DNA  
 <213> Glycine max  
 <400> 13989

ctatcattgt tattatttct ttcttcatca ttaagggaaa cacttgggct gccagatcct 60  
 tccacctttg gatgtattct ttaaagatc cgtgccccct tttttacatg tttttagtt 120  
 gcatcctatc cgaagacatt atactgac 148

<210> 13990  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13990

gtttgggaaa taagtgtggg ggttttgttc ttgacaaaac ttgtttgtgg ctatgcttca 60  
 tgatgtattn tggccatact tgatatacat tgtatatngg gttaaatgtt ggacatgctg 120  
 aatgaaatgt tgtttctcaa aagctataga agtaaaaaaa aaaaatttcg aaaaaaaaag 180  
 aaaaag 186

<210> 13991  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13991

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 cccggacccg ggacgcaaag ncattttgag catgcaacca ttcattaaga gcaataaana 120  
 aacgggtcaaa tggggggaac ttctatcagc cgaacattat ctcattacag ataaggccca 180  
 caaatgcac atgtcagggg acttaacaaa gctcattggt caaaacgcta tccttgaaag 240  
 ttgtatatca ctcttataga gaactgcata aaacgaccaa agatataaat ttttcctact 300  
 atttaaccat ttacaggggt tgaaatagaa aaaacttata tgtggctctt tagacgattc 360  
 tgggtgctgtt ccgtcataag atttgcacgt tcacctcaat gattctcata ataaatgggt 420  
 actttaaggt ttctctag 438

<210> 13992  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13992

gctatctana tcgggggatga acaaaaaaac ctgtttatat tatgtttact ccaaccaa 60

gcgtagattg caaattgcc a gtccctcaac tcatgcaaag atggaaatac agatattaca 120  
 ttcttttaaat tgcattcaac aaacacaaac gcatatatat acgtggaaca attaataataa 180  
 tttgaatatt gaatacataa atactatttt tatgatgatt aataacttgc cttgtgacaa 240  
 tatatactac aaccagctg tgtaatatat cgcaaaaatg cttgatgact cttcttctc 300  
 tctgttcaca tactgcaaaa attcgttgaa tatccctata ctagctgatt tagacaacat 360  
 ctttcccatg ggatccaagc aagtgctagc tcttagacag aa 402

<210> 13993  
 <211> 607  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13993

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 tcgagaancc acgcnnccgt acccggggat accnncnaga gncgatcttg caggcattgc 120  
 anacntnngg tttgtnnngn gttgtaatgc aatnnaaagg nnaaccgaga caccaaagag 180  
 caagaaaaaa taaagtggcc atatannggc ctacaggacg gtctttggga attggatacc 240  
 atacaaaaac aattttgtgg ggcccatnt tcatcacacc ctttctgttg ggaaatgggg 300  
 ttaaccaa at ttttaatta tcaatttcaa tagacgggtg ntactcctag aattatgcca 360  
 taccttgttt tctttatacc atgaaaaagt cacacatctc tgggatgtgt tcaaaaacat 420  
 ttaaaagttg aaagttgaaa aatcaaaact acaaaaaaag aaataaagtg tgtcaaaatc 480  
 tgacncgtgg tggatgaatac tatggcaa at atgacggttc aggtgaacaa cgtctggggg 540  
 ctttttccag gtacctagag gaatgtggaa tcgtcccaca gtacaccttg ccgggggtcac 600  
 ctagcat 607

<210> 13994  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13994

tatgggttag aagtaaataa aaaacatgtt gtctgaccat attcactttt aatngactga 60



cactcaatth cttttttgtt gctatcttta ttgctctgaa gaaaatgttt tgttttattt 120  
 gattggttcc tattttaact gactgcacat ttttggtaac ttgacaattg gtgcctttgt 180  
 gatgtcttgt catttttgatt tattaattta cctatgaatt taactttctc atatgaatat 240  
 ttctacaatg ttcagagttc tttagtagtt ttctattgac acactaatct gttactgctt 300  
 aatggcgtgt atatatatat tttatatata atgaggaaat acctttcccc aaaatgtgag 360  
 gtttcgaagt tcaaattcac tctgagccat ttactgatat gatgagaaaa tagacaatat 420  
 atatgtgcaa acaaaaaaat atgcttctga 450

<210> 13995  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13995

gggcgtgatt ttgagccttt tgnagtcata tgatnttttg anancnccga anncnanagn 60  
 gaccagaggt ttgaagcngg atttttctat tcaagcagnt taccttacag cgacagaccg 120  
 aacaacaggg gccctgaggg caacgacgca cggcacaacc agaaaaccaa aacgaaaaac 180  
 caccaagaga agacgcacca acgcacgatt gccacaaaaa ncgacaaaca gaagaagaag 240  
 gaggaagaga nggaccanga caaccacacg aacactcccg aaaangccga cgccngcact 300  
 gccacgggag aaaggacgac agangaacca ccgggggacaa agagccccag agcccagcca 360  
 agagaaggga cccgaaggca cggccacaga gaggcccacc acacnggaac acgagaacaa 420  
 gaaccagtc gcccgccgac cgccgagcag gaaccgggaa ggactgaaaa aacacgac 478

<210> 13996  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13996

gcggtaagct tgtattgcac ncttcaacca acccagcggg tgctggcgna gagggggggg 60  
 gggtagcttt tacnggncca ccacgggggg gtgagatgaa gcttcaatta atccctagat 120  
 ttagagcaca aggtccgaga taaaacccta tgcttgtgac tctgttcacg ctaagatcat 180

cctgtaacac gtgcagaaca ccttcactcc caatatactg gggatcagcg cacagaatgt 240  
 tacaccggga gacatggcgc tatctgaata tatgatatgt aggctgcgcg ctaagatctc 300  
 tataatgcagc tctctctgtg gggggcgggg ttatacctat gtatgagatc tgtgtgagggc 360  
 ttgcgacgcg cttatatcca taaggc 386

<210> 13997  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13997

aggcgcgtaa antttgaaac ccctggagag gccaatgatg cgttgtancc ctggacannt 60  
 ccacacgnac ccgagatccc tagagtcgat tgctggcgtg caagcagagt ttaataacat 120  
 tgcaacaaga gnccacagga gcacggacga ccacgctggc tcaactaata caganacacc 180  
 ctccatagag cactcctaca cagcaggcat atccgactga cacacacgtc tgccacgaca 240  
 tctagcctgt gccacactgt cgattacagc tcatacgaac tactccacgg aactacctgc 300  
 tatactcacc gactacatat tcttactcga acggaagact ccttagaaca tgggagctac 360  
 atcctgtcaa atgcgcctc aacaccagaa tgagaagtac cggacctcac tcagccacgg 420  
 aatcctgatg tgcaaggaga caactcatgt gagacctcaa gcgttgacaa agacacttgt 480  
 cggaggaaaa taaaacatgg 500

<210> 13998  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13998

gcagcaggtc angagttcac tcatacaccn anaccnagac ctagctgggc aaaacaaggc 60  
 aggagattta ggcttataat tgctcgctaaa aacgagcggc cgttaaatgt aaagcataac 120  
 tataatcttgc tattaaatac tcagagagag agatgtacac gagcataata actctatcgt 180  
 ctatgattaa aatccacaaa acatatcaat cctaacagca actcattaga aatacactac 240  
 acttcccaga tatacatggt ggcacgcagc tcgacagatc tttagtcaag ataatacaata 300

atcacatgtg cgtcttatgt cgtagagt attgactgat tatcgtaggg ctctacgctt 360  
gctctaagtt ctcaactatc gagcatgtat gcttagccgt ggtgctgatg cagccctatt 420  
atgactataa tgataacgca catacagtat ggaggcccta gctagatgcc atttgtatgt 480  
ggagatatag gacan 495

<210> 13999  
<211> 517  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13999

aaacgtgaaa tgtncctttg nactccggcg attccattga tanccgcan acncnaactc 60  
gaaccggaga ttctctacat cactttcatg catgcacact ntanttaaga caaagagatn 120  
aaagaaatcc aagatggatg atcaagacag nctctaaagt ottataagag gtatattaaa 180  
tatgaacgga actncaattg aagtagcaaa aggtttggcc aagaattgta agctaaaaag 240  
tctttgtcaa caaatgtact ctctggtaat cgattaccac aggatgtaat cgattaccag 300  
tggcctaaac tgattcacia caggtattag atattgaatt caaagtttgg aatgtgcaat 360  
cgatcacaca tatatgggat tcgattacca ccattctctg aacctttaat tttaaaattt 420  
cgacccttgt attggatcac acacttacgt gagttgtttg cgcaagaagg ttctcgagac 480  
attttgaacc acgcatttct ttttgtgtgt tctattg 517

<210> 14000  
<211> 326  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14000

agagagacca atcacgagca cattcntggt tttgaagagg agtnagctgc ttgctcaagg 60  
tccaaagcgt ttatgcgaga cagagaccaa catgttagcc atcgtcagca agtaccaaga 120  
agaactaaat ctagccacag cccacgagca tagagtgtg gacgagtatg cccaagtgtg 180  
cacggaaaat gaggctagag gaaggggtgat cgactcgta catcaagagg caacaatgtg 240  
gatggaccga ttttctttta ccttgaacgg gagtcaagaa ctgtcccaat ttctagccaa 300

ggccaaagca atggcggaca cctact

326

<210> 14001

<211> 529

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14001

aggggggtgtg acnntttgaa nnccccctttt agnngnccgt tgttttcnnn ttgnnncagc 60  
ttgcanantc nnnccnnntn ngnnnnggn nncngnggn cctntttttt gcgcngcng 120  
gcgttttttc tcctttcggn ctngcccgc nncggcgcc cggggggngt ntggcggnn 180  
cgcggcctgc ggccnctnt cggtcnnngc ntttcctcgt ttgcggtcgc tttctttctt 240  
cccccccg nctgtnggct tctttgntgt ttctcctcnc ccttttctc tgntcctcgt 300  
nctttgttcc ctctgnntgg cccctgcctc ccttgctctc gtctcgtecc ttgttgcttg 360  
tgtttgcttg ccttcgctgc ttgnnnntgg tccgtgtctc nttgccctcg tcntgtgggc 420  
gcgcgtggct tcttgccctc cgtctcgnct tcggcctggg gcctttgcn gcctctccgt 480  
gggntcgcgn nggtggttct ctccttcttg cctggtgtcg gtgtgtgcg 529

<210> 14002

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14002

cttgctaaac caaaatctgc aacaactgct tcaaagtcct catttaacaa tatatnagca 60  
gcttcgaaat cacgatgaat aatctttggg tcgcaatgat cgtgcaaata agcaagcccc 120  
ttaacagtgg tggttgtgat tttagacgat ctacaaaaat acaatcaata tacataaaaa 180  
catttttact tttaaaaaac atgtcgaaat ttaactacaa gaaattttta ttgcttttat 240  
gctatttttag cataggagtt tatttgtatt ctgtttcgac tgcattaaat gagatactgt 300  
tgttggtttt gtggaggaaa ttataaaaaa gagaggagag aagagagaca ataagtatgc 360  
agaggaaata gaattattct attctaaatt caattgttct caacaacgat acantaaata 420  
tctaaagata actaat 436

<210> 14003  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14003

ctcccttgag tggcatttgt attggttggt atcttgattg ttgcatctta gtacatttga 60  
 tatctttttg gattgtgcat catcataatg catgtgaaga aaattttcta agttagaaaa 120  
 atttcttcag aggcaaaaac tctaggttnt aataaattac aacctcgttt taatcaatta 180  
 cagttacaac aagttgtctg aagctttag agttaagtct catatcggtt taatcgatta 240  
 ttgatatctc ataatcaatt acactgttgt ttgaggcaat gactaattta gtcaggagtc 300  
 tctgctttaa tcgattacca agtggattaa tcgattactt ttctcttggt caagtgttt 359

<210> 14004  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14004

tgctcttatn tacattgatg tttgtattta ttggatgagg ttgtatgcca ttctttgttt 60  
 taagggtagc atttctgggt aaaactaact ttccaaatgt ttgcctttgc aggaaatggc 120  
 cccgaggaag cttgcctcaa agaggtccag gaaggacaag gcggccgaag gaactagttc 180  
 cgctcctgag tatgacagtc accgctttag gagcgctgta caccagcagc gcttcgaggc 240  
 catcaaggga tggtcgtttc tccgggagcg acgcgtccag ctcagggacg acgaatatac 300  
 tgatttccag gaggaaataa ggcgccagcg gtggacatca ctggttactc ccatggccaa 360  
 gttcgatcca gaaatagtcc ttgagt 386

<210> 14005  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14005

gaggactact ggacttctac taaaccanng ggcgggnttt gggnnattta ttgngngggg 60

ggtagtggn gattcgggtc gggatttggg tttctttnga cngaaccaac ttggtctcct 120  
gaaataaaac gcgaactatt ctccacaaga agaacgcgaa ctgccctcgt aagtaccgat 180  
gtacagaggc cggcaaagct ctgggagaaa aggat 215

<210> 14006  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14006

ncttagaccg atcgnagncg tctacattng cacncagctg cacttgagac annggnaaca 60  
gggagtgggg gaaggtgact ttccaattat anagangaca cgggggagga gagggaaaaa 120  
tcaaccacac caacaccccc cganaccaga gaggacgacc tncacgacgg aggnccgcgaa 180  
cgagcccaca ccaccgcaag gagcaaaaaga cacagggaga ccccgacaca agacacagaa 240  
aacaacaaca agcacgaccg caaacaggca caggcggggg ccgaancagc agacgaccga 300  
aaccgatcc cgagtccaca gcggtcagag caaagacgag acgggacagg gcagaaccca 360  
tgaccaaaga ggcgactctt tgacatttga ctttcaatgg tattaatcca gtacatctgg 420  
tttaaacggt tacaatgtca aatcccaatg acattcaatc ctggtgtgtt gatcgaccgg 480

<210> 14007  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14007

tggcagcctc tttttcaatg gaactaacct gggttattn ccttggatag ccctttggag 60  
cgtggtttcc ctttctgggt ttggaacctc actacaagcc ttaagtga aaaccatgata 120  
ttacattatc cttagggaat ttgggagctt tggaattgtt tggggataag tgtggggggg 180  
ttttgttcat tggacaactt gttttgtgac tatggctcat gatgtatttt gggcctactt 240  
gatgaacatt ggattttggg aaatgttgga catgctggat gaaatgttgt ttctcaaagg 300  
caaaaaaaaa acaaaaaaaaa aggcaataga gttgagtga taagatcttt aatggcacag 360  
gaatgatgaa actcttggcc tacccttcat ggttaagtnt aatcttactt ctttttctta 420

tttctaa

427

<210> 14008

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14008

taactcttga agaagttggt tgatccagac taactcacia gtgggttggtg ccatagccct 60  
acatttttgct tctgcactag accgagcaac agtggtttgt tttttgctca tccaagagat 120  
aatattacct caatggatac acaatatcca gtagtggacc ttctgtctat ggagcatcca 180  
gtctttaact tgtcctcata taacaatcct tgtcctggag ccttctcaat gttcctgaga 240  
atgcgaatca caaccttctg gtgatcaaca tgaggagctt acatgaatng actaaccagt 300  
cttctatatc tttctggatc tgagtatgga tcaccttggt ctgccattaa cttttgattt 360  
ggatctatag gaatattaac ggggtcaacag ttagtcatgt ctgggttcttc ttaaatatca 420  
agagcatact nntctttgaa gactatatg 449

<210> 14009

<211> 251

<212> DNA

<213> Glycine max

<400> 14009

gaaatgacct ggaacgtgac tagctgaaca gagcagggcg gacttagacg gagtctatac 60  
gggaaagggc catgtgaagg ggagacagag acttatataa ttttgatgcc acacgaggta 120  
aatgaactaa aaagggagca cctgataaaa caccttaata tgaacaagtg gacgcatagc 180  
acaccggata atgaattatc tcagtgtggc aacataagat ttgtgtagcg agtacaacgt 240  
ttgagagaag a 251

<210> 14010

<211> 245

<212> DNA

<213> Glycine max

<400> 14010

tcatacggac gggggcatgt tagaatacct ttccaggctc aaaaagtgca agaaatgatt 60  
 ggtgtttctg cgtatttctg gaaatgcgat gaactccctg agcgagcatg tcgcgcataa 120  
 ctagttcatc aggacttatt gaatacatgc tggtgcgaaa gaactcgta cagagccta 180  
 ccttgctaag taagtgcac ttttaaggat gaacactcat gctcttgctg agatgtaagt 240  
 ggcta 245

<210> 14011  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14011

gaatgactga ggcattgactg aactgccaa acggcgacng ttgagaaaat tccggatccc 60  
 aggcttatac caaccaatcc cattaaaatt ataatatag ttattgactt aactacaaca 120  
 tgcggggaat gacaaatctt accggtaaaa ttctacgtag gaagtgaaaa ccaatgaaaa 180  
 agaaaattgc tatctaagga tggccctttt ctgccattaa agtatgtagt gcac 234

<210> 14012  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14012

gaccaatgga aaacgtgaat gccggaatta ccatagacta cattcaccaa aaaaaaacc 60  
 ttaaggtcca taccctcgcc ttctaaaaag catgcttcct tcttttttgc cgaaatagaa 120  
 attgttgtca cctaatactaa aaccaccatc ctctcgaacc tcatgattgt ggtttgtgga 180  
 taacattaat ggtgagtcta ccgaggttga gtggaaatga aagagccaat tgtgagaagt 240  
 gaaaaaacat ataanaggga aagtgcacac aaaatgatgg gttcagaata tcaatagaac 300  
 tcattacaat ctctcataag ttgatagata agggatcctg agaaaacg 348

<210> 14013  
 <211> 170  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 14013

ctctgattct gcttgctgat gagaagaaaa agctttgggtt aaaataaaaa ggttcccttt 60  
ttcatattta ttcagcttgc catgtcctat tgatgagcaa aggcccactn ttcttttact 120  
gtgacctact cagccaaagt gaaaaactga cttgaaacct aaatctgctc 170

<210> 14014  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14014

actgggcgtg tgcattgaatg gcagattctc tntcagattc ttccaactcg ctaagcgagt 60  
tgagtgcctt gcttagcgga tgttacttgc taagcgcata tgcttcgctt agcgagacac 120  
cagctacttc aacctttctc ttcttcatcc tttagcctga aactgaagtt gaaccacatt 180  
aattcacaat attgggaata tctactgagt gaaatgggac taaacataaa tatgt 235

<210> 14015  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14015

gggcgttacc tgatcctttg gagcatttat cgctgaacct ggaaacccac cggaccggga 60  
tcccaagcga ttgaggcagc aaccgggttan tcagagaggg cccacaacag ggacccccgg 120  
cntggncaaa cccaccaga aaaanaaaaa gcctttctaa caaaaattaa gatgaccgaa 180  
atatataaag ttaacttaga ttagagatca ataactatca gacagattta aaaatcctcc 240  
aaaaagtaat gataccctac actctagggtt ggaaatagat ccacgcccta tgagataaat 300  
aataatattc cctatattct tttttttcga ctatattcctt cgtcatataa tatcatgaaa 360  
gaaaattatc caaaaatgta tttagtttta aataaataat tattttct 407

<210> 14016  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14016

tattacaaat gtaganataa gctgcatgat aaatcatgat tgtttcaagg agttntgatg 60  
 ataacagaga tgatgacaaa aaactcaaaa gtcaagatca cttcatgata acaaagatga 120  
 tgacattcaa gattaagttc aagattgagt caagaacact tcaaggatca aaaganaatt 180  
 tgatttcaag aatcaagatt caaaattcaa gaataatcaa gatcgagatc taagactcaa 240  
 agattcaaga atcaagagaa gacttaatca agataagtat taaaaagttt ttcaaaacat 300  
 tgagtagcac aagaagtttt cacaaaatca ttaccaaaga gttttactct ntgataatcg 360  
 attatcanat tatagtaatc gattaccagt ggtttttaaaa cgttaagatt ntcaaaattc 420  
 aaaatgaaga atcacatctg gtgatgtgta atcgatta 458

<210> 14017  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14017

agcgtgtatc tcttggtat ttcttttaaaa ctagtcaactt agaaagttat gacttttgaa 60  
 agaatcttca gaaacaagtc acttgaagaa ttgtgacttt tggaaatgta tttttcaaaa 120  
 tcagtcactg gtaatcgatt accattaagg tgtaatcgat tacacatcaa cagatgtgac 180  
 ttcatntga attctgaaaa tcttagcatt ttaaaacact ggtaatcgat tacatgatta 240  
 tggtaactga ttacagcttt gtaaatacgt ttgaaaaaaa tgctgggtac tggtaatcga 300  
 ttactacctt ctggtaatcg attaccagag agtanagcac tttggtaaag aaatcggtga 360  
 atacttcatg tcctactcaa tggttctgaa aaagtntag tacttattc 408

<210> 14018  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 14018

tctaatatag ttcttttctc cgaccgatta tggccttttg atgttccaaa cggggagaga 60  
 acttaagggt agaatctagg aataaattcc aatcttaagg gggagtaagg attgatagca 120

cacattatca atcgcatatc gcttatttag acctcagatt attgtcatca tcaaaaaggg 180  
 ggagatcgct caagcatata tgatatgaca gtatgatgat accaaagatg agcgtgattc 240  
 atgtcaacaa ttcgtagatc cacagaagaa cgatgtcctt agttgactag atcttataca 300  
 gaattcctta tgagatgccg cacaagtacg gctaa 335

<210> 14019  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 14019

ttccaacctc cttttcttgt tagaatatca atggttggac aagtggcctc aaatatctta 60  
 ggaagggggg ttgaattaaa atatcacaat ctttccttat tcaaaagttc tattttgatt 120  
 ttaaccctaaa aacccaagat ggctttctaaa atgacctcct aaataataat gcaaattaat 180  
 cttactgatt agaattatta agaattaaac attaaagaag tttaagggaa gaaagattgc 240  
 aaactcagat ttatactggg tcggcacacc ctgtgtaaaa tttgaatcaa atttctaaat 300  
 agctgtataa tcattttgcc actacatcga ttaccgagag taatctcttg aaaaagtttt 360  
 gacaaaactc ttaaaaatga gagaatgatg 390

<210> 14020  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14020

tgectcanag agatctagga aggataaagc ggctgattga actttttccg ctcccgaata 60  
 tgacagcgcc cgttttagga gtgctgaaca ccaccagcgc ttcgaggcca tcaagggatg 120  
 gtcattttctc cgggagcgac gcgtccagct caggagcgac gagtataccg acttccagga 180  
 ggagatagtt cgccggcggt ggacatcact ggttaccccc atggccaagt tcgaccaga 240  
 cgtagtcctc aagttttatg cgaatgcttg gcctatagag gaggacgtgc gagatatgcg 300  
 atcctaggtg aggggtcagt ggatntcgtt cgatgtggag gctctcagcc agttcctgcg 360  
 atacccttta gtgctagagg atggccagga atgtgagtat 400

<210> 14021  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 14021

gtcattaccc tgagctttac tgaacttgaa caccgccggt ttagcatgag agcgcgttgt 60  
 atgacgggga agcagttgct ctggatctga ctatgaggac actggagggg tatccattta 120  
 ttgaaatggt gctatcttac gactatcaat attgtccaat ctctctatat agaagtaggc 180  
 aacttttttt cgtctcagga cctaaattaa atcatagatg agccagggtgc tttttaacct 240  
 ttacatcgac atgctacacg gactgagcgt cagcattt 278

<210> 14022  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 14022

caccatggag acgcagcggga atacaaacga taagaggtga gaggaggcgc catccactat 60  
 ggaataagcc atggaacaag gagcttcacc accaagatga tccttggaga ggatgcttca 120  
 ctggaggaca agaaagacgg atagatagac agagggggga gcacgaaatt gaatgaacac 180  
 aaagggtgat aagttgaact tcgacctgtg tctcacaaga ctctcattca tcaaacgtac 240  
 taacagtgtt acacatgctt ctattttatag actaagtagc ttccttgaga tgcttacttg 300  
 ag 302

<210> 14023  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14023

tttgatgcat gcaagctagt tttagatggt atggaatata tgctgaggct tcgcaacatg 60  
 aacctgcgat actcatggta acgaatttgt tcttcactga gggcatttac aatggcagca 120  
 ccctcagcat tcttggggagg aaccctatgt tgcagagtgt taaagaaatg ccaattgttg 180  
 ggggtagtgg gatcttcaaa tatgcaaggg gttcttctgt gcttaagaca catgtgcatg 240

atgctaaagc tgggtgttgca attgtcgaat acaacgtgtc tgtcctgcat gtttgagtga 300  
aataggttga agttgtctct tataatatan gtttngtttg gaagggtgagt ttgaatcttt 360  
ctcttctaatt ttaagtccat tcgtctt 397

<210> 14024  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14024

gacacaacat actcagcttc tatccaagct catcatggag gagagtctcc ttcttctatg 60  
gcttattcct cannggatgg ctctctctct cacctcttct cctttgtctt tcgctgcatc 120  
tccatggtgg aaaatcacca ttgaaggacc tcattgaagc tcacagatcc agcctccata 180  
gaagctccta accccactac cacttcttca aatacgagtt ctattaaatg ttttaagtgt 240  
ttgggaaatg gtcatatctc ctcccaatgt cctaacaaca ggactatggg tgtgtgtgta 300  
atgggatatc actagcacat attcttctag tccttctagg aaactgatga caaacc 356

<210> 14025  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14025

angaccaaga gaangaaggg ncatcatgct cagagctgga gggcctcttc cttgatactg 60  
accatgtctt anacttcgta cttgatctgt aattccaccc gtatatgttc ttcgatctgt 120  
tgcgctgga gagaaaacct tattgctaga ggttcctga cttcgatagg gatcgaggca 180  
tatgtgttcg ttgtaaggcg cagaggggtc accttagtca ttggctgatg tgaacaatga 240  
tgagcatcaa gtatatgga ggagtgttc ttggacaaac cttcgactt gtaagatctc 300  
gtgaggagcg ctgtaaagat aaacttgta gttgcctcta cttggccagt ttgctgggga 360  
tgttcagaaa aagtcacaag gtgctagaca ccg 393

<210> 14026  
<211> 661

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14026

cgcatcctc ccnnnnnnna aggggcnaag gcnaacgatg gggccgnttg ccagnttnnc 60  
tnctagcnat tnnacgagac actccagnta atactcaagc ctnttatatg ccgcaagtag 120  
atagaaagtt gctatatagn tagtatccat gttgacgtan ngccacatac cagtgtgtgt 180  
gcctgaacgc annogttaaa ccattcatg tacttttcnn tctctntctc tcgtatctat 240  
ctattcctct ttatctttta attcatatcc tattacctac accaacgtca tccttcgtcg 300  
cgatcgagat annatacgta ngaacaccat agtgcgtag ggaccttcat aagtnacac 360  
gaatacgntc tacaacgaga agaattcgtg cgcgtagatn attattaaga tatgtgcagg 420  
ccatagaata atgaaacttt cactcaanac caatgataga atcaatagcc atntacctga 480  
gtcaccttca cacaaatatg agacattatt tcgggatgat attggagaat ttacacggct 540  
cgatccaaca tagttcatgt gatccaaagt gtgcatatga tgtccttact aatatgatag 600  
atagaaagcc acaccatcgt ataatgtagt tcttagacgt taaatgatca ctgcaatacc 660  
n 661

<210> 14027  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14027

taagcttatt ccgatatggg ctcaaaacgg cagcaggtat cttcagtttc tgagtaagtg 60  
gtctccatgg tttgttcac aattcagttg gctgaacaaa atcatcctct ttttcatttc 120  
caaaaccacc ttcctttggc catatagcat tgccatagcc ataggttccc tttgttcaaa 180  
gagccaccta ttatgatcaa aatctccagt ttggctcctc accagtgctg acttcggtga 240  
cttcatcatg gacaatctcc tctccattnt agacattcca cttggtggag gaagtagaag 300  
gggatgccca ttatctatag ccacttcac tagttctgtg ttctgatatg gtccttgca 360  
tctgngcat atcccacctn ctgttttact 390

<210> 14028  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 14028

atgaagtgcg tgagacaagt agttcaatta atgtttggtg atttacactc atgacaagga 60  
 atatcaggac gtgagagtgt acgacaatca ttttcattca atgaaaccaa gctgcatcca 120  
 ttctctggac aatacctcat tcgagtcaat cctcaaatta taaaaatata ggccttctat 180  
 gcataaatgc ctgacaaaat gttgggtgat cgaataatac aagcatatat tctatctacc 240  
 taagtagagt attaagcaaa taccacaagt ttttttgtgt tacagtttgg tgaaactcat 300  
 tacttttata aacaatttat tatttacgat atataaaaaat gtatgttgcc taaaaataa 360  
 ttaacgctat gaataactta tga 383

<210> 14029  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 14029

agagttatga gcttgaacgt atcttgctg accttggtg aggggccctt tttctaaatg 60  
 gaatggggaa aaagcacctc taatcaacct aattggaaaa tgtccgagaa acaaccggcc 120  
 tcatgtccac gtcggggatc cgaattacgc ttactttggt tcgcttaccg atcccatcac 180  
 ttcatatttg cctatgctat gtiacgttat tctcttctcc gcccttgctg tacatctagc 240  
 attttccatc aataaaaatcc gcttgagctc ttg 273

<210> 14030  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14030

acattcttgt gctttctttg tggaaaatac acacttgctc aaactcatga aaaggaacac 60  
 aaactccatc acaatcatga attcaattca naataaagac atacgcccc a ttttcacana 120  
 aattaaaaat aaaaaaataa aagtgtnta ctgccatgct atagaaaaca agtcaaacta 180

ttcaaaatgc ttcaggatga gcaaactaac tactaataaa taaaactagt agtgtatgta 240  
gacataaagg aaatattgta ctaaaaccat aattataata ataaaccana aggcaaaaag 300  
tatcaccaag aatcaacaat gtcaacagtg tctaaaccgg ggaatcagtg agagcaac 358

<210> 14031  
<211> 497  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14031

tggatgannn ttgaaagctt ggaagacagt gattcattga gaccggggat ctatgagncg 60  
acctgaggca tcaacctgta tgttaagtct aacaatttta tcggcctggt gcaccaatgg 120  
taaggggagg taatacaaga catcttgcca aacaaagtca ggtagcgat aactcgcatg 180  
gtgctttttt ccttccatgg cctatatgtg agcanaagtc atttgatcca gctcaagggt 240  
tgatgaagtt tgaaaaatga tgccggaatt tatacttggt cacagttgga gatgttattt 300  
tctccctgct ttctttgaca tgatgattca cttgattgct catctgggca gaaaaatcaa 360  
atgttggtg ctgttatcta cgggtggatgt accccttgac cgaacatgga catcttaaac 420  
ggtttgcaag aatctatata tccagaacct ctattgttga aagacattgc aaagaacat 480  
gaattctttc aaaactg 497

<210> 14032  
<211> 339  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14032

cattctccta acaaagtcga acatgccata actcaatcgt gctttttctt caatgtcata 60  
tgtagcaaag accttgatcc tgccaagtta gatgagctag aaaatgaggc taccaataca 120  
ttgtgtcgca tggagatgta ttacctcct gagttcttcg gcattgcggc aacttaatt 180  
gttcatctgg tgagggaaat taaatgttat ggtcttgat atttgtggag gatgtaccg 240  
attgaacaat actagaagat cttacaatgg tgtacaaaga atctacaccg ttntgaagca 300  
tctattgtgc gaaggtacat tgtacaataa actattgag 339



<210> 14033  
 <211> 530  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14033

atgcgcgact canaanttta gaaacccctg tgagaaagac gntttgannc catttgatna 60  
 ccttttgnac anncaatcag ngnnncacag gagtgtggcg cgggnnccca tctagatgga 120  
 ggggaggagg ttttnccent tttttagccg gcacgacacg ggngacacag cggcttataa 180  
 ttacctgatt atacagcact ctccatgatt gccctataaa tttatagtgg accgttaaaa 240  
 aatatgagtt atataaaata catcaacacc cactattcgt tgcgacttaa ttaattatac 300  
 gacaccaata ggaactcttc tatttaatag tcaactacag ataaacaaaa attccattgt 360  
 gttgccacaa agacctgctc tcgaggattt tatgctacac atcttatttt cgttatcaac 420  
 atcaccttgg gtacaaataa aatggatagc caatttcatt tcccctatct aaatttggtg 480  
 gtaaattgagg ctccatcccg ctacaactca aaaccatata tcgatggccc 530

<210> 14034  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14034

cgcagatgga tattcgatgc tanagcnctc gaanaacacn caancnanan cacanggccn 60  
 ncaccgcnag aggaggagag tgggacttat nttatgctat tctgaccanc acgccgagat 120  
 acatgcacag aagaatgtac aacctacggc ttcttatcat ggtgacaatg aggctacatt 180  
 cctcctgttc gagactcgcc atctccatat acatccctaa aattctaaca aaccagacac 240  
 tgtattttatt cacgcaataa acaaaccttc tccttaccca ccatccatct atcacaacag 300  
 ccateccctaa taaaccacac agtatcgcta ccgcactttc aatgacgaac atcaccttta 360  
 acacaatcct aatacaccaa ccataaaatg atatgtgcag caagaaagcc tgtgtaattc 420  
 accacaatac cagtgggtcta tgctgacttg ctccaatact actcgattat taaatgatgg 480  
 ccgtacccta tccaagggtc ttgaactctc atatttt 517

<210> 14035  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14035

```
aggaggtann tttgaacccg ttggaggcct tgatccatcg aaccctggaa cccaatannc 60
actaaggtgg caggctaatt tagcagagag gccaacatat tctnccaatt tccatggggcg 120
gacaaaaggt cttccatggc acgcagggac ccaaggggaa aacacagaac cccctaattgc 180
tcccctataa ataaaatgca actctggaag gcactactat tatggcagac gatggctatg 240
ccggaaacca ctaatgactg cactctgggc atccatgcta cactaggaac atgtctgcag 300
gatagtaacc aacgatcatt gaatcgctaa aaatatccca cttgtggggc ctcccttggga 360
tacatgctat gaaggggaac ttcatttcaa atggagggtc ccaactaaag gacatgccaa 420
cgatgttact tgaacatcgt atggaaagag g 451
```

<210> 14036  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14036

```
tggaacatag tgtgggttcg agtagtatag cattaatant agcacaaaga gtttcttcat 60
tttgctcacg tccttcaaac aaaacacctg gcatagcaca caggacaata taaaatgttt 120
atattacagt aagtccactc aaatatttct aacaagcaga tgaatcttaa ctcatgctt 180
cattcctgta tgagaaggtg atatgctcta cctcatagac ttcattggatg agactttaca 240
atcttaaaac ttatatgacg gcatgtggat ccacgcttag gcctataaac aggcataagc 300
tgataggatt ttggtttcta ttgaaccca 329
```

<210> 14037  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 14037

gcggatgact gagcatgact gaacagcaac acgccggaga aaattgtcac gtttacggaa 60  
 accgggctta atccccaag acgtcctggg ggagcaccag ccttgagact ggcagtaaag 120  
 cggcggagac atcaacagcc caccaaaaag aacaggaaca taaaaggcc catataaagg 180  
 aagtttatgc aacgggaccg ttaaataata ccaccaacag taggct 226

<210> 14038  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14038

aggggcnncc cgagcgttga ctatggctat gcacncgcca caananacca agcnctacca 60  
 gcgangaggg gagagagctt ttctatgctc tccncaagg atagcggcga ctctcacctc 120  
 attaactttg tctcccctcc atcaacatgg tggagaatac catatgcaga cctcttgaa 180  
 ctcaaaattc aacctgccta gtacctccgt accccactac caacctttca atacgacatc 240  
 tttcaatgta taaaagtcca ggacatgcgc atattcctct catgccctac aaaaagataa 300  
 tagtaggccg gtaaaggaca cactactcat ttcttatatt cacaaaggac cgggtcaaac 360  
 ctaaactgta tccattggaa agaagatagg gtgctgatca tgattacaaa atcaagcaac 420  
 acttcctcat cggaggaatc caggacctga gg 452

<210> 14039  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14039

agagtaattg agcatgagac gtgatcatga ancngaccca tangncngga gaaagaattt 60  
 aggggacaca cattacgggg gaaaaaaaag ggcccccaac gccggcaacc aaaaggagaa 120  
 aagcccagga cacgccaagc gagcaciaac gaagggcaga acaaaggaga gacagaaaac 180  
 aagaacggcc aggaagagca ggcacacgag cgacaagcac caaggccgcc gagacagcaa 240  
 acgccgaccg aaacgaagag cagaaacacg ccggaaaaga aggggggggag gaagagacgg 300  
 aggccaacgg aggcaacaag accctgacag cgagcccc 338

<210> 14040  
 <211> 653  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14040

```

aggggcccng aggcagtaac gttgngcann ngcatcgann ncnnnatnca tcnanatan 60
naanacacnn acacngnnnn aggggnaagg aagaggaggg tggagagagt tactactttc 120
tccgcnccnc cncncncccc gncggggggc cgtagtgtac agannannaca cnacacaccc 180
acataccact acatccaccn canagcncaa tgatctaata atctagaaac agcgtcagct 240
gacacaagaa taagattaaa cctcnngcaa tngactatga taacagagca agacattgct 300
gactccgatg tgagtatcgc gacctgaccg cctcgaggta tatacggacg ctcgagagta 360
tctcatccga tgtgcgtcat tgtgtgacct cgatcgattt ctgcatggac attgtataat 420
ctatcacatg gtggtactac tcttacacag aactgtatat atcactatct tcgcaacaat 480
gcggatcgga tgctacgatg cgtgggtact acgacgggca tacgaagtac ttnaccgaac 540
gtgacatgca gcaattactg cagcgagtg aagttataga gtaggtacac cacatgcgcg 600
tgagagacaa tgaacttgat aaggacagaa tccatcactc ctggtgaagg cag 653

```

<210> 14041  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14041

```

agggtgtcnat ttgaaagctt tggaagcctt tgagcctttt gaaccctgt gaaaccatc 60
gngnncatga gatgggtgag ggacacttcg agaggcgagc gagcttttta ccttgtgac 120
accaacgggg agagaagaac cagcagtgag aacacacaca caccaaaagc ggggagaggg 180
cgcgaggaag gatgcactca cctaagtgtt acattccaaa cgatctgcaa aggcttgagc 240
taggacagca tcaatgctgg caaagttatg tcttatagag ataccgtaga ctctttaag 300
gttgtaaaga cgactccacc aattctcatt tattgttata gaccgaaaac ataaattatc 360
ttcatggccc ctatacctat ggggtgagtag ggctcttttg ctcaagggtta acgcgtaggt 420

```

gctgaggtaa ggtaaacttg atcttccaga caacggagac actctactat gctcatagtt 480  
atacttaaat tcggcctgag ttagccntcn 510

<210> 14042  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 14042

tcgatcactc acttaatttt ccatatactc cccctttgtg gttgaatcta cgcttcactc 60  
gagattaact aatttaagca tatgagggtg tgaatcaatc cctattgtct ctcccccttt 120  
ggcattaaca aaaagccaaa gtgcgtaaga aacataaaac atacataaat gattataatg 180  
catacgaccg aatgtaagca catatcacta aacatatatt atcaagataa ttaagtttac 240  
aactgcatac aattaagagt gagcagatat aatcatgttc 280

<210> 14043  
<211> 514  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14043

tgagtgacan nanatttgaa naccgtttag tgaagccccg gtgatngcaa tcgtanance 60  
attgcgaann catgctcgga nctgaggat gctgtagagn cgaccgtgca gtatgcangc 120  
atatctttttt tttgantttc acatcccccn anaaacaaag actgtttttc acaattctct 180  
gctataatag atcaccctgt gatataatcg actactttac tttcataaca gatccacaag 240  
tgatcaagag cactctcatc tatgacattg agagtataat ctattacatt gctcatgaaa 300  
gtctatcaat tttatggaat aacactttta tctattgcaa tgatcaaata attcgtatct 360  
ctataaatag tcaccttggtg ctctcacttc aataacctcc tataacttct taatgaacta 420  
aagtaccagc tattttctca tgatacgaag atagaaacaa tgcttctaac agtgtgctcc 480  
cacctataac ttcgattttg agacaacttg cgat 514

<210> 14044  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14044

```

agtgtatctt gcatgcacnc ntcacaacat ccaacccnac acagcnggag aaggagggga    60
gagatatctt ttacncccc cacggccgcc ggggcctggc tggagaagac caacaagaat    120
cccacaccgc gcaactgcac acagccaatt cactccgact aaacctctcg ttcacaacac    180
acgcaactat accacgcctg tactgaggcg acgaactccc tacaccgcaa aactgctac    240
acgaccaccc gaccatagct gatagaccac cgattaggta tctagctcac gatcatgacc    300
accacgcacg ttaacatctc agtaacaaca catacaacac cacggagcca agcttggaca    360
taatcaacta tacctatcga acaacacaca gacatatcac cacaatacga gcaacaactc    420
agcgaagtct caagagcgcc cacaccggga aaacaggagc ac                        462
  
```

<210> 14045  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14045

```

gagganatga acgtgaacgt gatcatgaac tgaaacatga anaaagagag gggctcttag    60
gggggggatta gcncttttag gnggcgaaac aggaccccaa gataggaggt ccaaatatc    120
ctgctggatt gaagaaacga agcctgtact ttaagctacc gggctgggag ataaataatt    180
gtgcacaatg aacagaagaa tttcgctga tgaaacctgg taccctaaag cgtctttaca    240
tgataaagct aagagggtaa tagatgaaga cctattcaca aaactgaaat cggccctcta    300
aaggctagc                                309
  
```

<210> 14046  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14046

```

gcccagaggt gtgactagct cacacacacn atccnaccgc cngggggggg ggtgggtaag    60
ttacccccca ggcgcgctg aaatgggtccc ttccattgag tggtagttat caccgtctgc    120
  
```

tatgaatcag gggcatagga gtaccacgtc tgcgattccg ggacgaagaa ccaaaccgac 180  
gcttcaccca ctagactacc catgtctgaa aaaccatgca cctttgggac aaagcgctac 240  
cttaccgttt cccgacatta taaaagtact ttccgaaacg agcggactca gaacgtcgcc 300  
gctcgctctc 310

<210> 14047  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14047

ggatgaactg ancttttgaa cgggtgtgcat gacttgaanc aagnanaaga ggagcnagag 60  
gattttatgg agcagagcgg ttctcacatt ttaaaggacn gaagaaggcg natactagt 120  
gtgggggaac gtatcanaaa agaacaccag gccgatatac atacggncat ttgctcttag 180  
cgcatccatt atagaaaact attatgggat actgtcaagc agctaatagc agcacttgag 240  
gggttggggg gtatattggg cgattttaat tccattaagg accctgacga aagatttggg 300  
aggtgccaaa gattatccac aagatcgctg atgagtgaat ttaatgaatg gatagatgat 360  
tggagatctg caagacctta gggaggcgga gatttattcg acataaccat ggagcgctaa 420  
aaacgatgac cgtttttgga tccttacatg ctttgatatg cctgcagatc a 471

<210> 14048  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 14048

gccccgaggg tacatgatct tgaaccaaca accaccggag ggagagggaa tacttattac 60  
caagaggcgc ctggttacta gatacaaacg gcttaattag gtgcataaat tagatgtctt 120  
ggacaccaag ggttcaagag ggaatgagaa aatttctccc taaagacact aattgtctcc 180  
actgaaataa gacttcttca gaccctaata ggaaccttag gtctggacga gctagctttt 240  
ttttaaccgc gctagcaata agatttttaa acaatta 277

<210> 14049  
<211> 431

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14049

agacggcnnt tcgaagcctt tgtaaaccgt gantctcgat gccttcggaa ccnagaggng 60  
ccaganagga aggggaanca tttaggaaa cagcagcaac aaagtgtggc gcacagaaaa 120  
ggaaaccggg gaacaaacaa cccaacgaac aaaangagga aaaaaangac gccncgccc 180  
accncaaacg agcccaccga cgccaccggg caagagagac aagaacacac cggaggagaa 240  
aacagaaccg gccccgcana agacgacaaa cgagcaaaaa gaggacacgg ggcaacaaca 300  
gcgacggaca tacagaaacg ccacaaaaca ggcaaaagcg gcccgaaaaa ggagatgcac 360  
ggcgaggcaa cgaaaccgac aaccagcacg gccagcacia gccattcgcg ggcgatgaag 420  
caggaaaccc c 431

<210> 14050  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 14050

actcaagcgg agcagccaac tcttgaggtc atgcctgatt attgaaaatg gtgattaagc 60  
gcacaagaac gcctactctg cgaacactat aagggacttc aagaatgtgt tcaaggcatc 120  
ctcatcaaac ttactaaat gacctctcac cctcacctgc gtaagtgatt tatcctcagg 180  
gtcatagagg ttgcataaa attccttcac aacaacgatg tctatactgc tatcagacaa 240  
atcacccaac ttctcatccc aatgtctact cttgagatcc tcttcaact tagcaaactc 300  
tgagaattaa ctaccacatt cctttctaag agtagcttgc catgcaccac aatgtatgta 360  
tatctctact acacctctag ggatgtgaat caggatctat aaatc 405

<210> 14051  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14051

agagganntt tgatacgtaa gagcgtganc ttgancatga ancaagannn naaagggcgg 60



aactttgtgg cgaggatttc nnccttttcg ggaggcagga cgggcctcac acagaatacg 120  
atggcacatc actgtgatgg ccgcatttgc tggaaacaaa gacgggacct ctaaagctct 180  
gggcctgggg agatgaaaga acaatgcca gggtgagaaa aacatcttgg ctctggtgaa 240  
agcattggca gctacaaaca tctcgcatat aatactctga ggggggagat gtcaaaaact 300  
tatttacaaa acatggacaa tactctgcag aaagttatat cn 342

<210> 14052  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14052

cttgagctnt gagcaccac gactgtacct tgagcattgt angttttttt tcgaccaca 60  
cagttccaac agcagtgtag ggttttcttc gacttttctt tgatagaagg ttctgtgggt 120  
tccagccagc ggtttccaac agtatcgaaa tgaatgtggg gcaatgtggg tgtcgaccga 180  
gcagtttctg gcagatttca tgtgggagga gaaagagaag agagagtgcg gcagggtttt 240  
cgagcgcgcg agttgtgaaa tttcaacacg ttttaactta ttaacataac aacatcaaca 300  
tcagtttttt aaggataaaa aatggttagga tgaatctgtt aacatcgcggt ttctaaaaat 360  
cgatgttaac ttcaacaagg taacatccgt ttctcaaaaa ccgatgttc 409

<210> 14053  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 14053

aaagatttaa aagtgaggaa tggaagggat ctgtaaaaaa caacgggaac ccatggggat 60  
aattatgatt gacaattaat aggatcatat attataggca tggttatgat acattgtaaa 120  
aaataatagg gatggtataa tgatatgaaa aatgttacat tccagacaga tgtaaataga 180  
atgtgactaa gagaataagg tcaaaaataa ctttttgttt cttatacatg agagctattt 240  
gactcataat gctgagctat 260

<210> 14054

<211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14054

ttgcattgct cgggagcggc cttgggttta taaatnttat agaactcctt gactagggct 60  
 aagttaatgt gattatctgg ttgcctggtc aaggetctgt gccacttgca ctcctcctg 120  
 gtggaactca tcatactgtg agaaggccaa ctccacattc ctttatggga ggatgttcct 180  
 gcaatggacc attttctcat atcgcttcca ggcgacctta aacatgaacc gagatgtgtc 240  
 gtanggttcc tgaagtctgg aggtggaagc gcgtctcttt cttgagacca tctgcaccaa 300  
 aacacagcaa atgagtcaag ttagacaggt tttattgaaa aa 342

<210> 14055  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14055

aggactggan cttttgaagc cttttnggag ccaaattgatg cttttgaann ccnggaacnn 60  
 aaaannnacc ggagagagtt agncggattt gatagacca accagtttct tagtctacaa 120  
 cacnacaacg gcgaaataag gacagggat ccataacccc acccaagagc actcaacctc 180  
 catttttaca aggaccctac tcaaacacac catgtgctta taatggagga gtactgggcg 240  
 cattaattga tcatgggtgtg accctgaaac atagaggcaa aacctgattg atgcaggctg 300  
 gctaaaattc aaggagggaa ttcgcttgaa aatcctgaca ttgggaacca cactatgcat 360  
 ggggcattgt gaaggtgggtg ccatatttct caatgaatct taggatataa agtttgcctt 420  
 ctttgaaaca ccagctcaat gtaataatat gataaataaa ggccttggtt tattctttct 480  
 gaag 484

<210> 14056  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14056

gaaaataaca ccagtgactg tattttgttc tcacgcttcg gttgaaaatg ttttggacaa 60  
cataagtgtt aacttgagtt ctatattgga ctggctctgc taacacaact gagcaattac 120  
agatcaagtg gcccacacaga gactgttgct acttgcacct ctcccaatat ttttctattg 180  
gcatttcaca accagaaaaa gatgcatttg aatagtcatt ccaaaataaa ttagaattat 240  
ngaagcaact gtgattgcat gaat 264

<210> 14057  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 14057  
agggaatgcc ttggcgtgac tgcctgaact aggctgggag ggaattagac ccccttttcgg 60  
ccacgagcgt ccccgagact taaacgggta acaagagcgc agtctctgga agcaggaacg 120  
ttaccccaga gtcctaactg aggaagggca ccagtgaac cgaagccctt gcaaggtccc 180  
ccgaaaacat gaaggaacgc agggcaagtt acagaaaacg ataggggact gttaatctcg 240  
cggcgca 247

<210> 14058  
<211> 333  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14058

taccactact ggaaaatcca aatccaaatt ttcattgagg caatagattt aaacatttgg 60  
gaagccatag aagttggacc ttatgtaccc accatggtgg atggaaatac aacaatagag 120  
aaacctagaa aagagtggtc tgaagaagac agaagattac tgcagtacaa tttataggct 180  
acaaacatca ttacctctgc cctangaatg gatgaatatt ttatggtgtc aaatngtaag 240  
agtgctaaag atatgtggga cactctacaa gtacacatga aggacaactg atgtcaaaag 300  
actangataa tactcaactc atgagtatga ata 333

<210> 14059  
<211> 261  
<212> DNA

<213> Glycine max

<400> 14059

aggtttttaa cttgagcttg atcttaacgg accaaagctg agggaccctg gcttcggatt 60  
actgggaaga gacagaagca ttaacaaggg taccctata cacactaggt ataagaccgc 120  
ctctctcac tctctcgaat cttcaaaaag cctccatag gcctgtccaa catttactcg 180  
gcgtgccaca ctgctctgta tcactacca cactgttaaa gcctcctcgg ttaactcttc 240  
actgagactg ttaccaaggc t 261

<210> 14060

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14060

ggaaaaatng gatatggcac tgtagcgaa gccttgcat acaagtgtcc tttgtcttt 60  
gtacgtagag actatntcaa tggaaaacct ttttgagaa atatgcttga ggtattctat 120  
tgactttctc catgttagtt tttgtgtct tcaatatatt ttggttatga gtgcctttca 180  
agtaattatc ttattttttt agttttatca agtggtgtt gaaatgatta gaaaggattt 240  
actgacttgg cactggagac cttatcttga acgtgcgata agnttgaacc ctgctatgaa 300  
gcaagcatta at 312

<210> 14061

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14061

agctngttgt aacctgacac angaaaagtc tctatatata ttgattgcag nncaactgca 60  
gagccagctt ttgaggttgc atattctatt gcttttcctc cttcatgttt ttcaactata 120  
cataccatga acattgataa canaaciaat aagttaatcc ttaaaagctn taactgaagt 180  
tagaacgtgc attggattaa taagctttac attttcatca gtaatagtgt tttccattat 240  
tatgttactt atcatttttg ttctgtaaat accttctaatt gtttaaaaat actattttat 300

ttggngctct atttctct

318

<210> 14062  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 14062

tccacaccct ttcccctaaa ccttgactaa atgggggggta gaaccttgga cccaaagcta 60  
ttaatgtgta aaattgtctt tatacattac tataaaagct atcagacttt ttcttagtag 120  
tcttgatta ggctactac ccccaaacca cttaaaaaac actgtaattg agattgtcaa 180  
ctataagata cattgcatat ttagtgatgt aacttaccac tctcctagat ggggactata 240  
ca 242

<210> 14063  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14063

ggatgtaaac tgaagcatta gacnnttgat catgaancgg gcatcaaagg accgagattg 60  
taaggaatta gagaagcaac aattattggg tgaaaccaa acaggaagg gactaaaac 120  
cccaaaacna ncgcaaccnc ccgcacatgg gaggccatac aacgcacgaa aaaccacag 180  
ctgggctaaa gttgtaaata atcttaaagt tccaccgaaa actggtataa agctaaatta 240  
atttctatgg tcaaattctg gactggctctg gaccaaaatg ggtgagttag gtccttaaga 300  
tggctggaat tttggagctg aaataaaata aaacttaca atataaagaa agaaactcaa 360  
aactaaggac tgtcacctat gatttgcaac aagcagctag 400

<210> 14064  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14064

catganggtg ggctcatggg ccactttggg atatacaaga cgctcgtctt actcaaagga 60

aaagtttatt ggccccatat gaagaaaaat gtccttaage attgcactag gtgtgtagct 120  
 tgtttacaag ccaagtctag ggtgacgcct catgggctat acacaccctt acccatcccc 180  
 tctgcacctt gggtagacat tagtatggac tttgtccttg ggcttcctag aacccaaaga 240  
 ggtgtagact ctatctttgt ggtggtggat aggtttatca agatggcaca ctttatacca 300  
 tgccacaagg tggatgatgc ttaccacatc tcaaaacgct ttgttatgga agttgtgaga 360  
 ctcgatgggt cgcttgacc att 383

<210> 14065  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 14065

atctgaagaa atgaacaaag tcaatatata atatgagtgc aaacaacgct atcaagcata 60  
 agcttggttag tgaagtatac caaatttcgc aaaagctaga ccccaaaatc ctaaataattg 120  
 gtcagttgga aactaaaga acgaaggggt ttgaagaaac ataaatagaa caccaatctc 180  
 attcttaaaa taaaacaccc aacaataaat catcatttgc cttatctact ttctttggcc 240  
 caaggacaaa tctgctatca actagctgca acacagaata cctttgaacc ctaatctctc 300  
 ttttcattaa gcttaataac taccaaggga aaagaacacc atagatcatc tagttct 357

<210> 14066  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14066

tgaactgana ttanatctat ttctttcaca cttgtgtcaa tgtctctctg gtataggctg 60  
 nncaagtcaa gcatttgtga cacttcagat ttcttcaact tcttggtgcc acaaggttga 120  
 tcaacacaat gatcagaatc agtttctgca cttctctttc tcccatcaac acttgtatct 180  
 cccttgaatg ctttaacttc tgctggatga atggaaatca acggcaattc aactgaaaca 240  
 ccatcaaact tttgaggggt gtctgcctca tccatgatgt gttggtgttc agagctttca 300  
 gatgatgtca aagagctntc aagtgaacac atggttcctc tgtcttggtt tctctcttca 360  
 cagttcaaac ttaaccctcg tgtttctgtg agttctgaaa ttggagaact tggacatgca 420

ttattg

426

<210> 14067  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14067

agatgtnnnt tgannncttt gtanancgtt attcatcgaa cnccggcacn caacgnngac 60  
cttagatggg gagagcaacc tttgcgctgt ccagcacgtt tcntccancn agggggcngca 120  
gacaaacaaa gagcccgcctc cagacaacca cgcaaacaan nccacagaaa cnngcggcag 180  
agaaaacgac ggacacaacc cagacagcaa aacgnngagag agaaggcaca ccacacaaac 240  
gacangcgcc accagaccaa cagcaccacg gaaaaaacac ggccgccaag agaccccggg 300  
acacaggaac cgccacgggc gccgcgacgc cgacacagcg cggccaaaca aganggaagc 360  
cgagcgacaa caccacaacgc acaaacagac ggaaagcaac aangggccgc gacacgacaa 420  
agcgaaagcc cccccaagcg aggggaaaac ggcacgaaca cagaacaacg aagagcacia 480  
aacacgaagg aaaggac 497

<210> 14068  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14068

agcncagcat gtatcgTTTT tcaNccccac aaataccacc gnccccaagn gaagaaggga 60  
gagatttctt ttgncgaca ccgaggggga ggtgatgaga ccaaccccc ccaacggcaa 120  
atgcgcgaag agcagacca tccgaaacca aactgaacaa gctagcgagg ctgggctacc 180  
ccttgctctc gccagctcca aatcgagcct gcacgcctac cagaaggctt cacattccgg 240  
accggcaagt acctacagag acacacccga ccggcaccca accgacctta atcccacttg 300  
cccagagagc tgcggtgatc cttctctcga acgcccgcgtg gcacttacgc cattggaaac 360  
gtgactgg 368

<210> 14069  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14069

gcgttactga gcttgagctt gatcttaact gaancacngc aagagcgaca tttggcgcat 60  
 taacttgaaa cacggacggg aaancccaac caacccccaaa gcacacaccg ccggaggaac 120  
 ccccgggcaa caggacgcaa cncgccaaca accacggcaa aagaaaaacc acccaccaca 180  
 gccaaccagc gcagcaaaga aacacaagaa aaagagcgac cccaaccaa ccgcaaacc 240  
 ggaaaccgag cccacgggc aagaccaacc 270

<210> 14070  
 <211> 602  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14070

aggcncncng agcaggggggt tgaatcgta ctgangcaat tgcancnacn cnnattncnc 60  
 aagcnnggca ccngaagacc aagacgtgac gcgggcagag gtttgagttt tgccttttac 120  
 gnnncnggaag gcgcccccaa ggcagggctn tacatgnagc acgcaaaagg cgcacatcc 180  
 nccttgggcc caacctccaa cgtgagcgtc acggtcctct cacgatatcg ccagtataca 240  
 tcgtantctt ctgagacact cgaggtccgg cctccaaata cctactagag gcttcccgca 300  
 cacatcgaag agttactttc gccattttct caaccagccn ccaccactac catccagact 360  
 naaaaatatac acgggtcaga tagacagaaa cacactttgc ttctagcaac atccaaccca 420  
 gaatgctcga agtttatggg tatctgtaac gagtcccgag agaccaatgt accttccactc 480  
 gcaattccgt gaaccggttg ctatggactc ccagatgta actgcccggtg tctacccnt 540  
 gagacagaca attgggcgcg tgggggttac taggagacat cctgtaatct ttattggatg 600  
 cn 602

<210> 14071  
 <211> 428  
 <212> DNA  
 <213> Glycine max





<210> 14074  
 <211> 644  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14074

ccgatgctgg ggacgtcagn ntncnntag cantnnacgc gacacncnag aaacactcaa 60  
 gcctntangg attgagaaga atatgagagt ggaacatatt ctgtnttcta nttgncnttt 120  
 cagcaatacg atnagagcaa atgagtagag cgccctatct gtatanntaa taatatcgac 180  
 ccaaccctct acctggtagt tacattgtct tcttgaattc tagaaagaag atgggtgggat 240  
 aacaatagcc tgatgataga agatatttat ccatttaata catcgcacag aaataaacat 300  
 gtatacatat tcaccgcaca ccttatctag tcagttagggt ctgtgagaac catcattata 360  
 tttcagaact ctgaagagaa gtacaaacgt attgtacttt ctcacacata attctctctc 420  
 accaagcatg atcgttatat aagtgaagag acagtagaat atgtgaacag caactagaag 480  
 acaagggacg tgtaagagat acagatggag tcgaatgctt atatcatcat acttgcaagt 540  
 gagcaagaac atatacttca gaaacattcg gaggctaaac agaataattta ttcatagtga 600  
 agaatttagg cataacacaa agcattattg tccatcatat gccg 644

<210> 14075  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14075

aaaaaaaaac natatgcatt tatcaatata tntaagtaat aaaaaaagtt aatgaaaaaa 60  
 taataagaaa ttgtttatga attattaaat tgggattgat tgaagtattg tttgaacgct 120  
 tacaaattat tatgattcct ttaatgtgaa gatcatgggt agaaccaatg gtttgggtcg 180  
 ggcttttagga aggggtata 199

<210> 14076  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14076

tgtacgatta tggagtaccc atcacatgtg ttactatgtg gttgtcgggc gangngcac 60  
 aacaagtttt ccacatccac aaagcgcgca taaaccatc atccccgtt gccacctcc 120  
 aactgagctc acgtactccc acatagccca tatectgtt tctctcaaca ccgggtcccc 180  
 atcaatcctc ccaagcttcc ccaacatcaa agtaatacaa cattcaaaca gcacaaacta 240  
 ccacagccaa gaaaacaggg caaaggcaga aaactctgct caaaacacca accaaaatca 300  
 cagcttttct cacttaaaga tcccagtaac aattccttcg atccaattcg ttaaccgttg 360  
 gatcgactcc aaaantttac tggaagtcta tagtacataa gcctacattt tgaccgttgg 420  
 gatctactag caaacatc 438

<210> 14077  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 14077  
 aacgtgatga ctgaactgac tggctggacc aagacggggg cagcctaatac agggtttttag 60  
 ggggaaaccg tggtaaaacc ccccgaacac ttcattggctc cgatgcccgg actccaaagg 120  
 cgaggaggcc agacatcccc cgagcacgac gtttagacggc caacctcaac taggagggtt 180  
 cgacaccctt agcaattcgt caagaaagcc cgggcctggt cctgcagtac aatctggtac 240  
 cgctgccagg gg 252

<210> 14078  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14078

agacaacgtt agtttctgtt tgcttttagg ctgagcgtct tacagacagc aataagcatt 60  
 gtctatacgg atacgcactc gggtttttcc gcccgtcagc gtgactcaca ttcagtatga 120  
 caaatattgt gagcgcggaa gatgacgcat atctccgct gccacacggc ttgtcggccg 180  
 cgattgacga aagacgtaca agacgacgtt agtctctgcg tgctatcagg ctttacgtct 240





<400> 14083

aggatgtgaa nattttgaaa ccattttgng acgacangct gatactatcg tancncnncg 60  
ggaacnnnat aanngcactt gaaggcaggc agccnggatt gnattaaggc gctccaaatc 120  
cattagggcg gagattaccn cggagggaga gctcaaagct aggattaagg gacataaagc 180  
naagcttagt ttactttggt ttaacatfff tgccatgtcc tatgttattt gaacatggaa 240  
tccattgggt gatagtgggt aataataaat caataatcat ggttaatgag gattaaaact 300  
acttgaaagc ttaataaaat gtttaggatt cactgggacc ttccatgggtg ttccacagaa 360  
ggccgtgcct accatgggtg tccaacagaa agcgggtgcct tctggcgga gacacgggc 420  
gagctggcgc gaaccacctc ctctttccct ataattaggg aaagggcgga agaatcgtna 480  
accctgaatt atgatcactt g 501

<210> 14084

<211> 195

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14084

ctctaactct gaaaaaaatt gattctctct attatccttt acggtggcgt natctcaatc 60  
acggaataat ccctgcataa tttttgctac aaaaactgac aaattatcat caaaacatga 120  
tttcatacta attgacatag atcatgatta aagaaattaa gcatatctac tactactttc 180  
taattattcc gcacg 195

<210> 14085

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14085

nnaactgtan ancctgntgg ctagtacatc ggttanncat tgagacntgg acctcagagc 60  
gacctgaggt ctgcaacggc ttgaagcacc agacnggtta ttttggggga ggnagangcc 120  
agaggggggc aagaaaccgc cccccggaa aacgagctnn ccaaaggag cctaccacga 180  
aangggcccg aggaagctgg cctcaaagag gtccaggaat gacatggcag ccgaatgaac 240

tacttccgct cgggagtctg atagtcaccg ctataagagt gctgtacacc agcagcgcta 300  
 cgaggccata aatggatggt cgattctccg ggagcgacac gtacagctca tggacgacga 360  
 gcttactgat ttccaggagg aaatatggcg ccggcggtgg catcactgat tctcccacgc 420  
 caactggatc ataaccaaac gtgtttttat gcaatgctgg ccacacagat gtgtgcggac 480  
 tg 482

<210> 14086  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14086

ccggggatag tcatgctaga ntcnnaccct aacnccaaca gcgacagggc tagtagcaaa 60  
 aggaattnct ttacacccc acaatcacaa ggggtcctaa aaaacacaaa gcggcaacgg 120  
 acctcaagac aagaaacctt aacacaccct gtnaaaatac acaagaatac gcaccccccc 180  
 aaaggaattt gcccaaaacc cgaggggtacc caaatcgttg caatgtaact tatccctatt 240  
 actgaaattc aagggaacata ccctaacaag tcataactca ttttccagat aactaacgc 300  
 acgtggctgc aggaaaacccg gggtccatga catgaagggt gagcgaagtg aggctatgag 360  
 cgctgcgaat gaggattggg gat 383

<210> 14087  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14087

aggggacgga gatattgata gcttcttgta agaccntnga nntcattaga aaccgngga 60  
 aantcataca cgaccggga gacganagan cgacttttaa gcaagcaacc aggattangg 120  
 acaagagcaa cnnaaaaaaa anggggaaaa accagagggg gaccaaaacg gccagggaaa 180  
 ggcacaagg gnaanggaag acanangcaa aaccaaacc ngncaaccn nnagaggcaa 240  
 cgangcggcc cccaaccggc agagnnacac ccangccca ccaaaccag aaaacaggga 300  
 acaaanncag ancgaagaga ggacaaggaa naggacggan acanagaaag gcnancaaaa 360

000001 501.2460

cannngccaa aagagaaaca caacccaaac gaaagganac accgcagncn caggcagaag 420  
cggacgggag gggccaaana cacacacaca cacacgggag gcaaaaggag accngncann 480  
cgcaaaccaa gnncaaaaca cggggangag agaan 515

<210> 14088  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 14088

tgtatatgct gaaattgctg atggaaaact gttagagatg aatggtagaa ctaacctatg 60  
gttagaaagt gagaatgtga tgttatgagt ggaaaaagag tgacgctttg agagttggaa 120  
ggttaactct gaattctgtg atcaatggag gttaaagtga gttaatacta gcttgaaatg 180  
tcattttatga cttgggagaa agctaggact gtgctacaga gaaaaacaaa tgatcaaagc 240  
gaatcaagag ccatttctag ggcaaaattg agtggtgaag agtcaaattt tgattcggag 300  
agattttatg tgtaaacta cgttgagcaa gattagatag atgttatgga cttgtgtgag 360  
gtg 363

<210> 14089  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14089

tgcaggcagg cagcctnnat tatcctggtc ccacaaatat nacacaacgt tggaccaccg 60  
agaccaacct attggatgga aagaataatt aatcctactc tcctatggta ggggacacct 120  
aaatttaaatt tattatatta gaaattcctg tttaagccat ccaaatacaag tcattttgaa 180  
tctcaccatt agtatcatgc atgtcaaaga taaggagaat ccggcatcgt aatgcatana 240  
cacaccaaac atttaaaaga aaacatgctt nctaaagcca accaaggtaa naatgattca 300  
ttaatcatgc actttttcaa aatattagac catattacca tatataaaac atggcagaaa 360  
catctcacac atgaacacat agccacacat tcagaaatga gtgtanggaa an 412

<210> 14090  
<211> 430



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14090

tatcttacct atctatctcc cagatgtctt tgcaattatt gattatataa aaaacatgaa 60  
gttctaattc aagatgtttt ctttgttgca tgggcataat gcaatcactc tatgtctagc 120  
attgattnta ttaagatgtc cctacctttg agttctacta aaaattatcc tctctcaagc 180  
gactaatccc taaaactgat gcatataaaa ctttcaatgt atttctacta aggattaccc 240  
tttttcaagc gccaaacccc taaagatgat gcaaggatga agcatataat acatttgttg 300  
gcattntagg cctcccaagc cctaactaaa ggggttttagc cttccattgt catgagagac 360  
tnttactn tanggggttg atatggatgg aagaagatgg atggatagag gaagaaaaga 420  
ggataatgga 430

<210> 14091  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14091

aaatccaaat acatccaaac catcaaagaa ccctgcaagn aacccatcca aaccaccctc 60  
actttccttc accgccactg ccactgtggc ctctcttca agcatcggcg aatgccctc 120  
gaacagcgcc acgtgtccca acagcttgct cttctcgaa aacgtagtcc cgcagagca 180  
ctccacgtg gcctctcccc gacactgctn gacgtggctc ctcaagtccg acagcaccgc 240  
gaaactc 247

<210> 14092  
<211> 279  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14092

tcaaaagaca aaaacccccca gcaccnagca nggagaaaac actanatgtc aggggtgcct 60  
aagctagatc ctttactgct gcacattngt ctcatgtgac atgtgataac tctacattaa 120



<211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14095

atggagtgnn ntttgannnn cnttngnaga gtcccatgan nnctttgatg cattgcanan 60  
 cnaagcgaan acacgagggc ccggganctt tttagggacc ggaggcaggt tacncgcttg 120  
 tctcagcnc caaagcatgc atcctgtgnc ccttaagacc ctatagcttt gggagccaag 180  
 ttatgccttg cgttctatac tccaaccatt ggtgatagac gcctatgaca ccattgctac 240  
 tgtccgctaa ctgtttatct cttatttcca ctctattcca cgctctatgg atcctctgna 300  
 gtatattcgc attagcttca tcgaaacctc gcgcgatgaa aggcgcgata atttcctccg 360  
 atggcacacc cctcatatgg tcagctaact gtcttatgga caacacgata tttcgattaa 420  
 tacaacccat tcgccctata aatggacatg tggaatcctt acatgagcat aacactctgc 480  
 tgctcttctt tcaccgagga accaact 507

<210> 14096  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 14096  
 gggttttccg ataagggtg cagttttaac tatcaatttc ttctaaaacc tgcattgttt 60  
 tgggaatgat atcagtagtt gaacttgcta ctatgactac aagtaagtgt gagttttggt 120  
 gtttatatag attaaaaagt gagacttatg gggggtgggg aaactagatg ctatattggt 180  
 ttgttaacaa gtggtttgaa ctgtgtggat aaaagcttta gctagttatg ggtaggataa 240  
 aaatatttta tcacaggaag ggatttgaag tgagaaattt actagcaaaa tctattcaag 300  
 tcaccctta tattcttcat tctcagcatt cctcgccagc taagggatag accctatttt 360  
 aatatgaatt aatgtgacat gaatcatttc tgcaagtcag tgtcttatta taatgcacac 420  
 ctccaatatt tatccatgat tg 442

<210> 14097  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14097

aggggaccta gtcggnattg annnncnntt nngagnnggc atttttagtgc gtcngaantc 60  
 ttognanana canagcgaan ncgagctcgg gacccgagga tccncttttt tcganctgca 120  
 cgcattgtgn cngagtgcac ganagnnacg aacncggaga gagcaganng annnnancc 180  
 gcacaaacag agaaaggaca caacagacca acngggacgg aanaaggag anggaggnag 240  
 acgaacacaa acacagacaa agccagcgaa ggcacgnanc ccgcaaaaaa ccaggacaaa 300  
 cangcancgc aaaaaagcag acaaccgcag agagacangc cancccacga acaggaaaag 360  
 aagaggaacc agccccaaga cgacaggaaa ggaaaaangg angannagga gaagaagaaa 420  
 agcaaaaaaa aggacnccnc nacacacana ncagagcaag ggcaaacc cgaccacaca 480  
 gacaaacnng gacaacacaa gggacaanac gagaggaacg gggngagn 528

<210> 14098  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14098

gacacataaa actcaagctg tgaattgcct gtttggtgaa ttattatact catnatgttt 60  
 tanggtncct gtgatgatgt ttgtgatgtt tatatgctga aattgctgat agaaatctgt 120  
 tagagacaaa gggtagaact aacctacgt tagaaagtga gaatgtgatg ttatgagtgg 180  
 aaagagagt agactttgag agttgacagg ctaagtctga attctgtggt aaatggaggt 240  
 taaagtgagt taataatagc ttgaaatgtc atttatgaca tgtgagaaaa gttaagctga 300  
 gctagagaga aaaacaaatg accaaagtga accaagagcc atttctatgg cataattggg 360  
 tgatgaggag tcaaattatg attc 384

<210> 14099  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14099

aacaaacgca ggggaagcca gccngncgaa nagcacanca aggaaagcag agagaaaggc 60  
accaccnacc acngcngcng ccacnancnc aagaacaaaa gaagaacaga gcagaaagac 120

<210> 14100  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 14100

tagcaagaag ttgcttcaga agttggagac tcactcttat agttgttgga gctgtgcttg 60  
atgatgccga gaagaaacag atcacaaaca ccaatgtcaa aactggctc aatgatctca 120  
aacatgctgt ctatgaagcc gatgacttac tcgaccatgt tttcaccaaa gctgccaccc 180  
aaaacaaggt aagagacttg ttttctcgct tttccgatag caagatcggt agtaagttgg 240  
aagacatagt tgtcacactt gagtctcatt taaaactcaa ggagagtctt gatttgaaag 300  
agagtgcagt ggagaacgtg tcatggaaaag ctccatcaac atctctggaa gatggatttc 360  
atatatatgg tagggagaaa gataaggagg ccataatcaa gttggt 406

<210> 14101  
<211> 225  
<212> DNA  
<213> Glycine max

<400> 14101

gggtctgact gacgctatct gactgacaag acgtgcgact gctgcagaaa tttctatctt 60  
ccaggtatat caaagccagg ggccggagaa atgtcgaca tgggtcaatgt gatgtggtga 120  
ctattataaa cttttcgact agtgagatct ggtatgaaga gattcattta aaggaggggt 180  
acgtgtgctc tatgaaacca ctacttctta ctacggcctc agcgc 225

<210> 14102  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14102

ataagcactc anaagtctcc ttattccata tctttaactg ttatgtataa atnataanat 60  
nnctagacca attagaagtt tcatggacgt gctcctatct cttcctaaca naacctagaa 120

aatcttcatg cattaatcat gctgcttcaa ataagaagag cctcatatgc tagttctttn 180  
 tggatgaga atctaacctc aagagaagag gcatgtgacc agacttcatc catccaagat 240  
 ggactatcat agcatcttgg aacataagtc tccaatcaag actaataaag ctnttgtcca 300  
 acctaacacc cattcttcca ttctccaag ttatactatc accttgggtat cccatgtcta 360  
 tcanatntat gagacaaagg aaatcacgga aatcctcagt atcacgatgg ccctgagaat 420  
 ntgctcatct tatgc 435

<210> 14103  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14103

agcggcggttt tttganccccc tttgnaagtg caatgantca ttgtanaccn gggaanctna 60  
 tgagcggact ggagcgtgcc agcctaagggt tgntggccaa nggnnccttt cttattggag 120  
 aatatgggaa taaccatggg tctctttata atggaaacca ccctggcaat ttggtatcag 180  
 gtggtggaca ccggtgagga ccgtgaccct ggtcgcgggg accaaatgga caccagtagg 240  
 gggcaggagg tgaaatcctg ttgaggagcc gccaacccaa cgtgatgacc ctggaataat 300  
 tttgggagag agtgggggttt ggtaaataca ctctccata gtgggttcca tagatcgttg 360  
 gtggaataaa ggatgtaaat cacaggattg gaataatatg attgaatagg ttttaattcca 420  
 tatatgtgaa tgacgtgtac tgagtactat actatatata tggatccact taagtatgtg 480  
 tgtggntggg ggactgatgc n 501

<210> 14104  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14104

cgagtnatt ntagccttag tttcactgta gntattagca ttttcgatta agaacgagaa 60  
 atgcaaaga gaaaacgtcc gattgatttt ccgctttatt atactaaaaa aaagatgttt 120  
 tttgattatt atattatttt tcatctcttt ttgttttcca acgtgggttac ggcacgaccg 180

aacggctcgaa attcatttta'acccaagttt acggatcata caattcaaac gttcgggtgga 240  
gatttattttt atttttaagt taagcgagaa atgacttaag taaaatgggt taagcacgtc 300  
aacaggggggt atgaaaagta aatganacga gaacagaaat acacaaaaca caatttggac 360  
caccacgagt acatagaatg aatcgaanag catgggttcga ggtacttac 409

<210> 14105  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14105

agggcgggan tttgaanaca tttgagagga ccggtgaatc attgagnacc tngnanncnc 60  
natgagnccg accggcaggc aggcaggcnn caattgggtca gagctccagc ctcttggcaa 120  
aatgttatgc cacacaaagg gacgaagcgg ctgctaattcc cacggacacg aggagggggag 180  
ggcanaacca gaacaacaaa ctgtgttggc ggaaccgacc ccctaaaaag aacaattacg 240  
gccaagggac ccatgccaag aaccagaagg aggcagcgaa tggccgagaa taaaagaacc 300  
aacgtgctac actcaccct atcagccaag atagacgggc tgagcaggcg cacctaaagc 360  
cttaggagaa tagaccgaga tgacgggtgcc tacaagacgg catgacatga gcctttgcct 420  
gatagatacc agctcggcca actataatgg ggcaagccaa ttcctgagaa ggatggaacg 480  
gactc 485

<210> 14106  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14106

ctctctggta atcgattacc agttttattgt tttcgattcc agnggcaagn ttggttttca 60  
aaaagctttc aactgaattt acaacgttcc aatcaatttc aaaatgggtgt aatcgattac 120  
aatatatggg taatcgatta ctagtgtgtt tgaacgttga aattcaaatt caaatgtgaa 180  
gagtcacatc ctttcacaca aatgctttgt gtaatcgatt acaatgattt ggtaatcgat 240  
taccagtgat aagcttttgaa taaaaatcac aagatgtaac tcttccaatg gttntcatgt 300

tattctaaaa gttataactc ttaatggttt tcttgaccag acatgaagag tctatanaag 360  
 caagacctta acttgcattn tatagacatt gaatacattg atttcaatcc tttacaaccc 420  
 ttgagtctct ttgaacatct tctt 444

<210> 14107  
 <211> 67  
 <212> DNA  
 <213> Glycine max

<400> 14107  
 tttaaaagtg ggtcccaatg ggcttcctaa ttttcagctt tcctatttgg atgtgagatc 60  
 atggaag 67

<210> 14108  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14108

gctagagaga tncccgatct gagagggtac tgctccgtcg gcacctttct ttangtcaag 60  
 atacaccaaa tttgagagat tccaatctg aggaggaatc ttcccatga ttccagtatg 120  
 agaagagggt gaggtgagtc aaggaagtca ttgtcccaag gaaagaagga attgacatac 180  
 cttctccaag gtattcattg gcgctcaagt ccaagtaatt caaatgcttt atatcagcca 240  
 aacaaggact tatctctcca ccagagctcc atctcctata agcttcccaa tcatcattga 300  
 aaatagaatc tg 312

<210> 14109  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14109

actatacctt cgaccaaaca cggctgtgtt tctatctccg cccggattta aagtgggttg 60  
 cagcaccggc tccgctttcc taaccgtact ggaagcggnt gccgtggctt tgctctctat 120  
 gggtttcttg aagttaaca tgacctcga gatggaagcc atttgatctt ttaaagccga 180



tagatcggcc ttcactctggt cctgcacgcc ctcttcatta tccaatTTTT ctggatcgag 240  
 tgttataagg gtgccttgggt gttttcctag ttatgatgaa tttcctaaag aaataaacia 300  
 aggtgagtat gccaccaaca aatgaatatg canatgaatg atccgtgcac ttggatccca 360  
 cccaaggggtt ttnggaaccg aatgagtcca gaactttt 398

<210> 14110  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14110

ngagtcattc aaacataagg cataactata tntaatgttc tttaaatcaa aacatgaaag 60  
 aattttgcaa cgtacggaca ttactaaagt attctattgt atattttatt ggaaattttct 120  
 aagtgatgat tttgcttcca tgaatgttat aaattcactt gttcaattat taatttagag 180  
 aataaataat tatttgaatt agagcttaaa aaaaattaat tgaatcagat ataacatttt. 240  
 aatccattta tacactacca ggaaaaaaaa aaggcacgaa gtgccttttc taattttttt 300  
 taaatataga aataatattg gataattatt acgatgtgag tggaaaaatg taacttttga 360  
 caaaaattag gcattgacaa agtcattaga tacatcctac cattaacata gttacaaaaa 420  
 gaatgaacta aatcaactat tttttt 446

<210> 14111  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14111

aggggacgtg caactgagtg tgcttagtac ggctngctga ntcttengan acccngggaa 60  
 ctacagacag gaccgaaga aggcaagann gaacttgang gcgaacgacc accatcntnt 120  
 ccanaggagn ccaaggaaac cagaggancc cgcacaaaa caaaaagccc gcagaagaag 180  
 cgcaccccag gccgaaacca cggaacaacc ccgaaccnga cccccgccag cggaatgaaa 240  
 acgccccggc aaccaagacc gcagaactag cgaggacaca gccacacgca ccgctgaccc 300  
 aggaaccaca acgggaggaa gccaaaacca gaagaagcag cgacgganca acggccgcgg 360

nactgatgac ccaggaacaa aancacccag acgncgcccc aacatgggga caaattgctc 420  
 cgatecataa aacggcgccg ccagacccac agaacggaga cccagcgacg acactcaaac 480  
 gcageccatg gtcgaggaca catgcccc 508

<210> 14112  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14112

cggacggtgt tattttatattt attgtacnnc gttcacaana nanncnncan gccgggagan 60  
 ggaggagnac ggagaggagc agaagagggt tatnatTTTT atttgnggcc ccgcaaaccg 120  
 ggacgggcga gaatcgacan gnnacacaa aaacccccacc aagagaacag aggaagccaa 180  
 ngagtgactt aggagacgag agcgaaccga gaaaaaccag gggacgcgca ncctcatagg 240  
 acgaggagct agtattcccc aagagagcag atcattcata gttgattgtc tgtggagatc 300  
 tatatgatga tatacgtaaa ctagatgtca catctcaaaa aaggatgctt ctatatatcc 360  
 tagtgtcgga aagtcagtcc gttcgatatt atgattactt cagaccatct tggagtgaca 420  
 cattcatcaa atgaatcaact gaatgctctc aggactatcc gctgaaatct aaagtcattg 480  
 cactcttaga atcgag 496

<210> 14113  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14113

agggggcgtg gncctgannc cctttgnacg tgcnactgat ctactgatac cttggcaatt 60  
 cagctcggac ccgggatcct ctgagtcgac ttgttgcatt acagcnangt tcatatntct 120  
 ctacgaacga nactcgcag cagaccatcc attaactaaa gaacaattca cccctattcc 180  
 atcaagggtg gctacttacc ctaaataattt acatgtactt tccaggggta tttgttattt 240  
 acatcacaca cgccttcctg gcttaattta catacatgca tactcaaagc attacgggggt 300  
 accaaaaaat gcacatgcgc tcatcttgggt atttctaata cctatacata taaaaacgtc 360

atgatcaatc ctgactacct acgcaataag gtgctacatt tcatgcctgt atttgtttca 420  
 agtctttgct acctaagagc ccatgcaaat tcaagcaata tttcctttgc tgactanaat 480  
 tgttccaaat tagaaggtat atttttctgn 510

<210> 14114  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14114

ntcaacaaga gtcttcacaa ataaccatca tgaagtttna aattatcatt atctacccat 60  
 catatctccc anaaccccat acccacgaaa atcaaaggag aaagaagtcc acccaaacct 120  
 gaaatthttga agtcccactc gtagacacgc acttcacgac cccgaaaatg ccctcctttc 180  
 acgatttggg gcagaaatga tggccaaagg ttgaagcttt gtgtggagct tcaatggtgg 240  
 aggaagaaga agagaatggc aacgtgaggg agagagagag ctgtctgaaa taatgtgggg 300  
 ctgagtgaag agagagagag ttgctthttg atthtaaaaa aaaggctntt tcttcatttc 360  
 ttattatttt attataaact atgccacatg tctccatttg agtggagcac aaagggccca 420  
 ttntccctta tgactgtgac ccatactcag ccacaaa 457

<210> 14115  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14115

tgagaatgcc catccttgct ctcagaagaa gacaaaagaa agatagttcc cgatcaaggg 60  
 tcggaagata gcanaagaag aanactccca atcaaagatt gtgagaaagc acaaaaagat 120  
 agaaaattcc cgatcaaaga tcggaagaaa acaatagaaa tatgcagaaa ggtcttttggg 180  
 ccagacaata tctgaacaat acagaattgt caccaccata taaggaaaga aaggaaacca 240  
 cg 242

<210> 14116  
 <211> 423

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14116

ntatacgaaa tgccactcta ctgcaagggt gaaatgtttg ttaactagga aacacaagta 60  
tatgcaccag gaaaacattg ttgttgaaag aaattgtagt gttgtgattc acaagatcct 120  
tccacctaag cataaagacc ctgngagtgt aactattcct tgttcaattg gagaagtcac 180  
tgtgggaaag gctcttattg atctgggagc caatattaac ttaatgccac tctccatgtg 240  
tagaaagttg ggaaagtcag agatcatgcc cactaggatg actttacaac ttgctgactg 300  
ctccattacc agaccatata gagtaattga agatgtgttg gtttgagtaa aacattttat 360  
cttccccgca gactttgtgg taatggatat ctgtgaagat aatggcattc ctgtaatatt 420  
ggg 423

<210> 14117  
<211> 286  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14117

nagtaactag ctcgatcatg atctgaactg aatcacggcc ggtccaagca ttgacacgg 60  
ttgtttctgga acctcaggct ttaagaatct cctccctca aaagattact ttcaaagac 120  
agagaatatt gagaaacaag aatatacaag ttcttgact taggacatgt acattaaaag 180  
actgtatatg aagattgaac atcgaactgc aataggaact ttaataatat gcactgaaat 240  
acttaacacc tttagaactc ctacgagtta atacaagtca aaatcc 286

<210> 14118  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14118

cacttagaaa ctaagctaaa gataactaaa atgatgatag aagatcggat cttatattct 60  
gattatatac nctatcaaat acaaactgat tagttaggct aagaataccg atagaatatc 120

ttatcatata ttttgataat atattctatc aaatacaaac tgattagtta ggctaacaat 180  
 actaatagaa tactgagact gtctcgaact ggacctagga ccaccaccac taattntttt 240  
 ttccagaatt cttgtgatat ccagacggct tccctggttag atattaatta gaaaaataat 300  
 tataacgagt tttatgagcc ttaaattgtg gaag 334

<210> 14119  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14119

agtttatagc tgancatgac tgacttgaac agcgatatgc cggttttttac tgagggtttat 60  
 tanagaagta tcttggggatg taaaacacga tttacgtttc ttatcttaaa tttgatcgag 120  
 actaccctgg gtgggttggga ttatcttgac tgtaattgtg caattccaat atatatatag 180  
 taatgattag gcctggcaat ttgaactgtc taaatgagtt gtctagttga acgaatcat 239

<210> 14120  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14120

agcncccccc ccnnccgatg gatganactg agactgttct gatcgcanan ccgcgacact 60  
 atagactact caagcctgtg tagagntgac aatcagtaat agtagttcaa atgacatata 120  
 tacgcaaach aagaaggata agcaactaaa gttctaagct gaatgtaaca tcaattccac 180  
 atctcttgaa agataatgtg agcgagagag atgaatcgaa ggaattgtaa cttttgaaaa 240  
 acaaaccata gagaattagt ctgaaagggg gctatntgga ttaccaaaga tataacttcat 300  
 gcacctgat ttttgccaaa catatgataa tcgcctgcc aaccattggg aaatagagaa 360  
 tcatttgcaa ttttggtaga tcaaagctaa aattcttgtg aaaccacata atgaggtggc 420  
 ctggagaatc tgaatgcctc aaggcactcg cttctttgat acacctgcga ttaacccaaa 480  
 accaataaaa taatttttat ttaagaacaa ttcttaag 518

<210> 14121

<211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14121

cgggagctgt cgattttgaa acccctttgn ngaggnnccg ttganncccc tgattgtcat 60  
 gtananacac ggcgaatnca gctcggaccc gggatcctct tagncgacct gccgcatgtt 120  
 tncncaattc atggagncan cnnangagcn agaatgcatg atcttgacaa gaagaccctc 180  
 tcttacgaca tgccttgtaa atcctctaag aggctctctc taattaaagt gtggatttta 240  
 tcttgacaaa gagtcacact agggaaataa catgatgtgt atttattatc taaaccatta 300  
 taaccgtcat aatcgattac cagcacttag taatatgttc ttttgcttat atatccttct 360  
 ttatgcatta tcagaacgtt ctaattgatt acaataaaca ggtaatcaat tatttcaatc 420  
 acaaagaaca atcttctaata atcacttaga tataatcgat tgcaagtatt tggttgtcga 480  
 ttatcctact tgcaatatgt catatttgcc tttagttg 518

<210> 14122  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14122

gacacataga aactcaagct tctcaggaag ctacctagtc tataaataga agcatgtgta 60  
 atacttggtg taactttgat gaatgcgagt gtggtgagac acaactcana gttcaacttc 120  
 tctccctttt ttcttctttc aatttcgtgc tccccctct ctctttctct cctcttttct 180  
 tttcctccat tgaagcatcc ttccaaggct catcttggtg gtgaagctcc ttcttccatg 240  
 gcttattccc tagtggatgg cgcctcttct cctttgtctt ccgctgtatc tccatggtgg 300  
 aaaatcacca ttaaaggacc tcattgaagc tcanagatcc agcctccata gaagctccac 360  
 aagcaagctt ccatcagtga tggcactcac attcttcaga ttctacaca 409

<210> 14123  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14123

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tncttataga tgctnctcaa gaaagtttct caagcaagct cctccactat agcttcctct 60
ttaagaaatt attagagggg agtgtgtagc taagctctag cttctcaagg aagctttctca 120
aggaagtttc tcaagcaagc tcctctattg cagcttcctt tctaagcttc ttatccaagg 180
cactctcttc gtggtgaagc tccttcttcc ttggcttatt ccctagtgga tggcgctcc 240
tctcaccttt tctcctttat cttctgctgc atctncatgg tggaaaataa ccattgaaga 300
aactttctcan agatccagcc tccataaaag cttctcaagc aagcttccat caagtggtaa 360
tcagagcaca agagcttcaa gtaggtactc cttaaaccctc catt 404
```

<210> 14124  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14124

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tgtctcagca gttgtgcaag accgagacca acatgttatc ctttttcagc aagtaccaag 60
aagaattaaa tctagccacg gccacgagc acaaagtggc ggacgagtat gcccaagtgt 120
acgcgaaaaa ggaggctaga ggaaggggtga ttgactcgtt acatcaagag gcaacaatgt 180
ggatggaccg atttgcctt actttgaacg ggagtcaaaa acttccccga ttgctggcca 240
agaccaaagc aatggcggac acctactccg cccccgagga gatccacggg cttctcaact 300
attgtcagca tatgatagac ttaatggcct atataattag gaaccgtag gaagtttgta 360
ttgtcactca gatcttgact agttataact tcttaataaa atgagtttat ctncgcgttt 420
tactcttaaa attagtacga atcanatcac t 451
```

<210> 14125  
<211> 242  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14125

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ttcttingat attnggcaaa gttaaaaata atgttttaaa aattatacta atcattaaac 60
taataaaata caaagttatg atttaataat tacatagtaa gtaataaagt aataataatt 120
```

aaaaattcat aattaaatac tatnttttta ttcatacagc ttatatatta agaactttat 180  
ctatcttaaa gtcattttta acagaaattt aaaaagaaaa ggggggaaat aaagacagtg 240  
ga 242

<210> 14126  
<211> 321  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14126

agtttaantt aaccactga tattcaaaaa aaangaatta ggttaaaaac tanatccann 60  
nnnnnnnccg ggtgtattaa tgggcccaaa aaaaanaaat anaaaatatac tttattaaaa 120  
ctttatatta aatatattta tttaaataac acaaataata taatttcatac ccttaactta 180  
atttataaaa aaaaatttat tacatataat ttaaaatatt tttaatatatt tttttact 240  
taacaattta tatatataaa taaatactaa atttctatat attcacctat tatatatattt 300  
cattataaat tcaatcaatt a 321

<210> 14127  
<211> 227  
<212> DNA  
<213> Glycine max  
  
<400> 14127

aggcagaaaa ctacagcccaa tacacaaaca cataccacaa cttttcttac tcaaataccc 60  
cagtgacatt cccttctttt caatttgatc accgttggat cgactcgaaa atgttactgg 120  
aggttcctga aacataagtc tacattttga ccgttgagat ctgcatgaaa tattcagaac 180  
ccaatatgta caacccttta cacagccagt catgcctata cattttc 227

<210> 14128  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14128

aaatcctttt ctcccaacgc nttttcttat tgtannnnntc cccnnnnnnn nnntngaggt 60



aaactatata ggatccncct ttacccttct cnnnnngann aaataccggg anggcggana 120  
 tgtgctgggt ggctataaca acccctttgt tacttaaata caccctggc cttatttga 180  
 gagatcttta tccgaacgtt accaaccttt acgaattcgt aacaatactg gttttctttc 240  
 gcgatgtaac aaaaccttac ggttcacgta ttcttcccc ttttgggctt ccgggatggt 300  
 actgaccttt acaaatggcg cactaacact tccttttgac ttccaccatg ttagggaaat 360  
 tcacgggtgg tgcaacattg ctatggtttg acttccgggt tgtacanaac ttcacgattt 420  
 gcctacgatg ggtgccagta cttcgagtag tatacgatgg tcgatcccac aatgatggtg 480

<210> 14129  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14129

ccggaaaccg accgatgaag aaacaaagaa agacgggacc aacaaccaa aactataaaa 60  
 nnaagggag ccgcaccgan actcnaannc anagnacgag ganncaaaga aaangaagaa 120  
 ggaaaaaatt ttgaaattga gggaaaaang gaggggaggg ggaaaaaaag gaccagaaag 180  
 gaggagggga aagaaaagg ggaagaggag gagaangaaa aaaaagagga gaaangaaga 240  
 naaggaaaaa aggagaaaaa aaggagaaga aaagaagtng gggggagaaa aaaaaagaa 300  
 aaanaagagg nggaggggag naagggaaaa gagagaagga agggaaagaa agagagaggg 360  
 ggaagaaaaa aggaaaggaa agagaaaaag gaggaaaaag gac 403

<210> 14130  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14130

agannaannn ggagtgtga tagcattctg acaacatana atnatgctga acganangng 60  
 acgcggggcg cgggaggttt gccttcactt agacagacca ccggagaagc gggggtgcaa 120  
 gtaacgaatc attcaaccaa taccactggt gccatgtctc ttttgagcc cagcccaacg 180  
 gaaagctccg cgaaagtctg gaaggaccct cgcgggaagc attaaggaaa aagccttctt 240

ggatacccag aggggggagct gctaccaccg tacgataact taacggggcc cctggcgaaa 300  
 tacatgagat tacattggga cgacccatag tacgcaagaa tgtagcttcc ttgaaagcag 360  
 aggggacacc ttctctgccc aaaacaaaat taccactgc cgattccatg gaatcattgg 420  
 agcccctgtg aagcagggtg aagtccatta aagcctaa 458

<210> 14131  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14131

cgcacaaaa caaggaggag cagggaacga aaagcaaata acaaccaacc acaaaccaa 60  
 aaaggggggg tgcttgactc caancacacg cccgggaccn aaaggaacgg gagaggaagc 120  
 ggaggattag gggacccccca cagggaacag ggcacggcga gggcagcgac cccacccaac 180  
 acacgaagca cccccaaggg ccacccacg gaccacgagc ccacgacccc taaccgaacc 240  
 accacaccgg gacccatcaa gcccccaag ctttcagaac aaaccancaa agcaaccacc 300  
 aaacatcatg aatatcagaa caagaaacag ggcagggcag aaaatctgcc caaacacaac 360  
 caaaccacag cttccgactc aaaaccacaa aacatacacg gggccaaccg gcaacgagga 420  
 acacccaaaa atcacggaag cccaagaaag 450

<210> 14132  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14132

aagaagcggg aactangcat cngcatnaan cantagaata tnaatagctt anactgccct 60  
 cgtccctcng ccgagaatac atgatacgt ctgcctttat aannggnngc canggaagtg 120  
 angggcaagc cttccaaacn tcttaccaga atgctgggcc acctggggcc tccttcacaa 180  
 cctttaacaa cacaacccca agaaggctcg aacctataa ttacctccac caccaaaacc 240  
 tgtgccgggg tttggtgaga ccggtccata taacctgag aatcccctcc ggtggaataa 300  
 taccgagaac ctcttggt tctcttacca acacctcctt ttaacaatcc ttttcttcgg 360

aaaggccttt ggccggaaat ctttatcaaa ccgtgggggc tccgccatct ggttcctcac 420  
 cactttcctt tcccttgaca tcgcggttg actgtaggtc agaagcccac acacgaccct 480  
 actgtcacc 489

<210> 14133  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14133

cacaacggac gaacccgaga agaagcgaga gccagacgaa caacgcatan aacaaccnta 60  
 tacaantaac tncacactca ccacaaaaaa aannaaaaga nnaaagggag cgtcgacccc 120  
 gtagtacacc nnaananaan ananannngg ggaannnnna aannnaang aaggaagaga 180  
 gacaagattt gaaaaaggtg aaaaaaaaaa atnagagagg ggatgggttg aaaaaaaaaa 240  
 ggaacatgaa aaaagtaggg gaagtaggaa aaatnggggg aagtaaaggg gggggtgtga 300  
 aagggggaaa aaaaagaagg ataaaggggtg atnggaanga gggcataagg aagaaaggga 360  
 gaagatgtga gggatntaaa aggggaagaa aggaaggaat aaaaaaagaa aaagaaaata 420  
 aaggaggaag atagaggggg gagaaagaaa tagaagagag gaaaaaagaa aggggaaggg 480  
 aaaaaaaaaa aaggggggaa tgaaaaatgg gaaagaaaag aagaagaaaa agggaggagg 540  
 aaagagaaaa gggagagaaa gaaagag 567

<210> 14134  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14134

gaactactga tgaactcaaa atcagactng acccgagctg cgagcggttg ttattttaaa 60  
 ngaaggcgtg gaattacgtc aaatatcccg atgttgcgga agtttactta attctaactc 120  
 ctataatcac tctttggagg ccatcaacta cgtaaattga attattaaag tgagtcattc 180  
 acattagttg cccgttgatg gaagttacct tttatggact cgttaattag ttttaggacc 240  
 cacgctggta aagaaaacga ttctcactgt g 271

<210> 14135  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14135

ggactgtaca tacgatcgat nnncttgnan anacnanagc naatnacagc gcgataccct 60  
 agagncgacc tgagggaggg caagtcttgt tctaaatddd ttggncncac gcaagggcgg 120  
 gatcgagagt ccccttatcc taagactaac acacgtatddd atgcttggta tgcaaccgtd 180  
 aactcaacg tgggtactgtg cctatgcaga gattcaattg cctacgaaaa ttatagtacg 240  
 agcagatcac atatatcaga taacttcac agatctccat ggacgaagta tgccttcaca 300  
 gctactacta ataagtatcc acagacgcac ttaaataata ttaacaccgc acttagagta 360  
 agctacctgg gataacagca tgggtggcctc ccggtaacca tatcaacca tatggttacc 420  
 ttgtacagga aggggaaaaa ttactacgag gagccacaat t 461

<210> 14136  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14136

naatacatag atgttntacc ctgnnatnng atanancnnc cnnnnnnnnn nnnanagaga 60  
 aagagacaat tttgtttctt taccacaaaa nggggggggt accttctctg ccattgttga 120  
 cccctcattt ttaccatgt atacttctc acattgtctt tgttgtaaaa ttatgttaac 180  
 atgattcttd agagtttcca ccgattaaac ttgctataga agttagatct gatgttctat 240  
 tggtcatact tgtttgtctt gtacttgaac catgaattgc gttgagttta cgctccttdg 300  
 cagttgccct gtaatttttg tggctgaaac ctaaccatat attcttaca attattaagt 360  
 tgaataaacc tctaaatcta catgacttgt cacctatggg attttgtcta gaagtatgtc 420  
 tatcatgaac ttgaccatag attcctatgc tggcctaatt 459

<210> 14137  
 <211> 307

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14137

acttttttgtt gaaaaaagan acaaaagatg gagataggtg catgaaactg aagagaatag 60  
gaaagagtta acttgaagtg cgctcataag ttttcttcat cacagtgaac ttgtgaattc 120  
atttacattt atgtgaatct aaaagaatat tccagaatat ccaaagcatc tttcatatac 180  
cctttaatgc cacagcatgg aagtgtgctc tacacatggg aagaagaaga aattggcttg 240  
ccccagga aaggaggcaa aatcattggc tggggagtca gtctaataatg ctagatctcc 300  
accctca 307

<210> 14138  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 14138  
gaccattggt accaaggcac atgtcacatg gaatagttaa atatatgaaa atccgtaagc 60  
ttagtatctc accttctatc cacccttcat aaaatctctc caactggata cctgatgatg 120  
aagtgtgtta atgtacacat cttcctttat gtgtgtgggt gggtgtgtgt gtatcttttt 180  
atctttggaa agagataaaa tactgcatgc aaacaaaatt cactaatctt tttctctctg 240  
taggctagta agacacttca aacaatgtat cttactcatc aatt 284

<210> 14139  
<211> 586  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14139

cacacaccga tcgcaaaaca acgacggccg agacgcaact caagacgaca tcaggaagac 60  
aaccanactc actataacca acnaaaaaaa anaaaaaaa agannggaga ggaacgtagc 120  
cgtagtcctt cganaanccn ccaanannngg nacnaggaga nccannagag angaacagaa 180  
cgcaagcaag cggattttat caagtncaac aagggggcga aacggcgact tgcagggcta 240  
aggcactaga ggaagcagcg gccacacacc acgacaacca gagaagaccg aaaaaaacac 300

ccccacgccc acggccgacg aggacggcat tagcccaaca aagcggcgca aaaacgaacc 360  
 caaagaggac ggcatgaccc gccctgaac aagagaacca aggaccgaac caagaagaga 420  
 acgagccacg cacctcanaa acccgagggc gaagaggaag aacaaaccaa cgcagcacga 480  
 gcacaaatga aagacagagg gctcaaaaag aacagagcga agagacagag gaaaccaaaa 540  
 gcacacacag agcggccgcg ggaaaaaccc aggaccgacc gcgaag 586

<210> 14140  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 14140

tgtcacgagg agtgtggcgg tcacattcat aacgaacgaa ctgatttgtc gatacggact 60  
 ccctaggaac atcatttctg acaatggcac caatctgaat aacaaaatga tgcacgagat 120  
 gtgcggggat ttcatgatcc caacatctaa ctccaccccc tatctgccaa ag 172

<210> 14141  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14141

acatacgtag cccagggttaa aactacnntt aatnnaantt tccangaagg gatacagtaa 60  
 agncgaagag aaggaagcaa tcnatgctta ancccacaac aatcggagga ttgataaaat 120  
 gaaaaccatg attattgaca agttatacat acttcttgaa ggaaaaaaaaa tttggnataa 180  
 tagcgcçacc accacaatgg atgagataag ngttgtatgt aattttatgg cacttcccct 240  
 tctttcggtta gattgaaaaa tgattaatta ataaacaaaa atttgagttg gggtttgtat 300  
 taagagagta gattttcaaa atagtcatag aacttttatt ggtgtaattt taaaatattt 360  
 gaacaagtgc aatgaatatt tttataacta ggtatacatt agaaaag 407

<210> 14142  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14142

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gaattncaac cgaccatgtg tgttgtaatg tcgtttaatc actgttaaag caaaatctaa 60
ccgattgttc acactataac ctacagttaaa taaaaaaaag gcaaaataat aataaaataa 120
tcaatatatc ttgaagaaaa aataaaatca aaaatcaaaa atatcaatcg gacatttttc 180
tttgaaagtt tccttgaatg aattgactaa taaccaaaagt gaaactaagg ctaaaatcaa 240
ctcaciaaacc aagctttgtc cgtaaaagtc acttgaaacc gttttaagggt ccaatgccat 300
aaaacggtcc tctatgctta tatcggttaa catggaccgt tcaaaacata taatcaacac 360
ataactttac cg 372
```

<210> 14143  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 14143

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tgtttgctag cttctatttg gagttaccaa aggaacagtt tggtcctctt tgataaggaa 60
gccaccgcaa tcaatcgatg ctacggaccc aatttcgaga tagcatggct tattgtgcct 120
caagccatcc gccataaaaa cccaatagat aacatataag ccccttcagt ttctttgttt 180
cgactttcga ttacaattaa cgtaataaat cctccctccc tgtcgtaata atctttgtgt 240
aaccacaaaa atcctaaaaat aattattatt ttaatttttt aatgcaataa tacttatttt 300
ttaacttata ttctctataa tattaattac caataa 336
```

<210> 14144  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14144

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attttaataa acgggggaat tgctttttat tgcaatagct tttaaaagta actaaccaca 60
tgaaaataat ttaatctttc aatgatagaa aaaaccgtat aggataagca ccttacattt 120
tatgctcaaa agtcaaagac ttctctttct aaagagtgc natcgagatc gttttaatga 180
tggaactata tatggttcta catttcgagt ttcatattcc attatagtac tacattgttt 240
```

attgagagaa gaaatatata gccatatata tatatatata tatgggtcaa tcttcaacct 300  
taacat 306

<210> 14145  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 14145

accgtattat ttaactgtgt actctgagcc aattccaacc gacattactc tttacctcgg 60  
aggtccgatg gagcccttaa ttaatttcag acgctcgaaa atggaaacgc cagctcttag 120  
aaaaagtcaa cgacgataac ttttaactcc gatgttcgaa tgagccctgt tatatatcga 180  
gacgcccaca aagaaaacgg agccttagga aaatcaaaca caatactttt actcgatgtc 240  
gatagtgccg gaagatatca gagctcgtat tgagacgaag ctttagaaaa ctacacaata 300  
cttttactgg tgtcgatggg cccgaaatat cagagctcaa ttgaaacgag cttataaagt 360  
cacacatg 368

<210> 14146  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14146

nnttagaagg cgaaacgaca ggcttagcat ncaacnaagc tttattntaa acaccaangg 60  
tttcgatata taccggaaat ctttcgaact tcttattaaa aggtatcggc gggttggtatt 120  
tcttaaaacc ttagatttca attccagcct tctggtacac ctccaggaac catccggcca 180  
ccgaatccaa aggtattggc gggttgattt gcttaaaacc tccggtttcc aataccaacg 240  
tctogaattc taccggaccc aatccgacat tccaatcaaa aggtattggc gggttgattt 300  
gctcaaaacc tctattttca attaccaacc tctcgattat taccggacta attcgacctc 360  
caataaaaat attggctttg attttctcaa actccgtttc aattcagcgt tcgattacac 420  
ggacccatcg acctcagtca aagtattgcg ttgaattctt cacg 464

<210> 14147  
<211> 135



<212> DNA  
<213> Glycine max

<400> 14147

tggaccaata tcacaatcat ttacatgggt ttccaaatct tctatttaag ccccttcaaa 60  
ccccctctct tcctttaatc caaacctaaa ccttaaaaaa accaactctt tctctctctc 120  
tctctaactt ccaaa 135

<210> 14148  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14148

naatccggaa gtcagcctgc agtacatgca cattcagcac gaagctgcat gcntacgggt 60  
gcgcacagga taaaattgtg acgtcctggg actctcccta tatggggcgc ggggttatac 120  
ccaggagcta ctcacactta tattggaatg acattttttt ttacacaata ttgtaatgac 180  
ctgtgaaaaa tttataatta ttatgagaga gaatagagcc tcctccactt tatgtgttat 240  
atatccccaa ctcccacacg ggaataacac ataaaagaga gattgggtcct ctccatacac 300  
gtgaaaagaa aaatatttgg ggaaaaaaat tatctcataa tttttaccgg ccaagtatta 360  
ccttttttaa aaaaaatcct cacttcataa cctcaccata gagaatccat attatccctt 420  
tccgaatccc caaatccttt acagaatgtg tgatacaagc acgtc 465

<210> 14149  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14149

ggagagtcgt gattaacggc aatncaacac gaccgggagc cctaaggcgc ccgcaggagg 60  
ggagcgctgt ttatttacac ttctcacggg aacgaaggag ggaacagggg aatccattac 120  
ccagagcaaa aaagctctat ggaaaaacct attgcaaaat acttcaggcg ctacgaaagg 180  
gtggaaaaac acccaatacc tccttgaggg gggctttcct agatccggga accttgatc 240  
tggaacaacac gaggatcctc ggatctggat ctagaagccg gatctcgatc ttgatgctgg 300

aactggaact tgaacgtgaa ctagacctag atcctgaatt ggcgtgacca atcttgaggc 360  
 atcgggagac ttatgtaaca acggggaaca tcaaacagct agaacaaccg acgatcacat 420  
 gatcaacgca g 431

<210> 14150  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14150

agaggtgggc ttcnacgata acantcattt aatgcttngc tgttacgang tttanagaga 60  
 gaaaggtcca agttctaagt attcctgaaa aattaaccgg tgggagaatc agcgagacaa 120  
 aaacctcgag ccgaagcccg tcttgaaacc tggaaataat ttgggaaggg atggtgaaac 180  
 ctctgaggtg agggaaactt ctctcccact gtgattttgc gcaacttcca tctggtcttc 240  
 ccctgggtgg aaaaggaggt tcccggacta tggaaggcta attcctctgt ggaatcttcc 300  
 gggtaggtcc cggaggtaaa tatattccaa tctatgaaag gatggttggg gtgtcttcta 360  
 tgctaactgc ttatcattcc agatggcttt aaccttgaac acttagatgc atgcttggtg 420  
 ggggcatcca cagtgggaat ggactgattc taagtccttg aagtatagac taattg 476

<210> 14151  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 14151

aaaaagctac ttctcgatat caagaccgga tcttaataac cccggtggaa cttttttaat 60  
 aataaccagc cctggatggt aaccaaaatt tttttaattc aaggcctgga atttttatag 120  
 cctgctaaaa tttaacccca acgttttttt ccctttaaat actcagtttt gacaggaact 180  
 gaacgatcgc aatcccaata cacctacctc acccacgtta ctgggctaac ctatacttgc 240  
 taaaaaatat acttttccac aatgaagact cggagagatg aggacttcgg gctggtcgc 299

<210> 14152  
 <211> 485  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14152

aaaattatatt caagtaccga taactntgan attaagcang gacacagagt cttcattctc 60  
tacacgaggt ggtggtgtgt tcctttgctg aaccggaaaag ggagagaatg gatacatgac 120  
ctatgacccc gatttgggtca ctatcgata gccataaaag gtgcctttga gattggtgat 180  
ttggagtgat gttgtaaaaa accacaatgg gtttcatctt ttgtgcctga atattgtgcc 240  
tgagggcgta tttgtgtttg taccgtgtgg aacacagttt tactctaacc aaggaccaat 300  
attgtgcata tattttactct tatctaataa atatttatat attataaata ttaattaatt 360  
aaataaact ctccaattat tatttataaa tataaattaa tccgtttacc tttatatagg 420  
tcatgcgccc gagaaaatgg attaaattat taccatattt ttttaatatc ataaatttat 480  
atttn 485

<210> 14153

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14153

gggggnaggg ggcggggatt ttngatntcg ttanttnaca acnnnnccga gagactctan 60  
agcgaccctg aagagtgcga gcctgagatc attctcaaac tctaccnngg nnnngggcgc 120  
tgttggtata gcgggggaca caccocctta cacacgtgga tatatacggt atttcgcgcg 180  
ctcaaaaact tgcctatcgt gctttgaatc cccgttaccg gccggaatac cccaatgggt 240  
tttccgatta actttttgct gtctgtagaa gaaaagcctg ataacacccc gagactaccg 300  
tcgtctttgc gccttcgtca atccgggcga caaccggtg aacctggaga tttacgtatc 360  
tttcgcgcgc acaagatttg tataatgact ttgagcacgc tgcgggcgga atcacgagtg 420  
gtattcgat aactttttgt gttgaagaca aaagcctgat acacgagaga atacgtcg 478

<210> 14154

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 14154

gtaacatcga cggtagacga cacttnaaaa taacanngct ggcaaanncg attcggagaa 60  
tgaagattat tattcttgtt atccaatata ngatttggga tatcgaatac aagcccaata 120  
agccctctgg tgatcgatta caagatgttg taatcgaata caagctggct gttcatgtgt 180  
aaaccattac actaatggg aatcgaatac cagagcctat cctaagctaa tttctaagaa 240  
aatatacata tttaggctca aataattctt atatgaacta atttcactac taatacacca 300  
aatcaatca ttcaattacc atatatacag gaaatcatta attctatcat tagaaccaga 360  
attccaacaa gatcaaacca aataatctac catcaaaagg gaaaaagtaa tcaatcatca 420  
atcaccaatc attcctatct tctaattctt tacatcaaaa cctattcttt 470

<210> 14155  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14155

ggtatgatga gtggagggag aaggagagat gaagcacgaa aatttatgcc ctaaattgacg 60  
tctgaaaatt gaaatggaaa tcttaaata atcaagggtta aagggttaaaa aaatccatcc 120  
ccaaggcctt atttataacc ctaaattgtc cacaaattgg gaggggaaatt aaaattctat 180  
tcaaattcat gtgaattctgt gaagctaatt ttgagccaaa atttcactaa ttatgattag 240  
tgaactntag caatgggttca acccaactat ccaagatcat gtncaagatt ctncactaag 300  
tgtgcttang tgtcatgagg catgtanatc atgaaagaca tgtacaacgt gtgactatat 360  
gatgtgacca tgggtgtagc angcaaatgc g 391

<210> 14156  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14156

ccccctctaa acgactgaca nnctantgnc gtgacntata gantactcaa gccttctttt 60  
ttggctcctta atcatttggg ggccaacctt ttgttcttat tgtaagaatt cctaatacctt 120

tgggaaggga gctcttccca agtgagaatc aatggcaaag ctctcactcc tatagaaggt 180  
 gttaagcctg gtcaagccaa accagtgtgg gtatTTTTTT ttgtgtgagg gcctaaatTT 240  
 tcatgtcaaa tatatcaata gggTTTgggt attggatgcc atTTTTatat ttaataaaac 300  
 acattgaata tgtgggtgaa tatttaatTT gggatttgcc tttcaaatTT agtggaaacac 360  
 tttactTTaa aaaaagtctt atattgtTTT aactctatca aagatcattt ctttctaacc 420  
 ttcacatgtt tcaatTTTcc tctccaacct ttcgacccat cntctctTTT ttttcatcca 480  
 acagtagttg ga 492

<210> 14157  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14157

agcttggTTT gattcggTct gacaagggat cgaggTTtag taattcaggc tatagcatac 60  
 aacacaaaag catgattgat tagagaaata tatttatatg catcaacttg tttgttagaa 120  
 agacctacca tttctaccta ctgctgtcac ttttacttac ttatgcattt atagTTTTta 180  
 gcataaaagt tagTTTaaat tctgTTtgaa ttatcaatca tacatgtTct ctcaacaatg 240  
 cttcattatc aatcatactg tagagaatcc gtaaagcatg gaatacagtg gaatggaaag 300  
 ataaggagct tangggaagt agcaatggca tcgttggTgg ctatcacaag t 351

<210> 14158  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14158

tacaagccta gaaaagtgct tgggaccagt tgggtggtcc tgaatatacc ccttgaaaga 60  
 aatggcaaaa atggaaactg gggtaaccgg tgaatggtgg attaacccta acacctgggg 120  
 ttgaatggaa ccaggaccaa tagggcttgg ggtgatgatc ccttcctaatt atttgcattc 180  
 ctactagctt atttcagttg tgttccttga taatcatggt cacatctttg aaaagctgca 240  
 tgtcttTtga gaagtTtga ttgaagcatt ntatgccatt catttcatgt gattgaatta 300

tntggagcaa acaccttgtg aataaccact gtgattntgt cacttgagga caagtgagtt 360  
gttttttct 368

<210> 14159  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14159

agcttcttat ttaagctggg aaataagttc ttagaagtgt ttaattaagt tagttagtca 60  
aatatatcca aaagttaaaa aggacaaacc ttaaatgcag ttccaagggt aatgggggct 120  
gctctccaat tggaatggaa attcactcca gaggtatatg ttgcccttaa ttgtgaccct 180  
tattacacga aatatcaaga tgaaactccc atttcattag agacaacacc aaagcatcta 240  
agaaatgctt taagtctgct atagctctta aatctttatt ttgtgggtgc atttaactgg 300  
acaatgtttt agttgctgta atnntatgaa agtgctgagt ctcttggtga tga 353

<210> 14160  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14160

tcgattatca aaaccatgta atcgatacac aaagcttttt atgaaaggat atgaatcttc 60  
acaattgatt ttgaatttca acgttcatat aactggtaa tcgattacca ataccttgta 120  
atcgattaca ccattttgaa atcaattgga acgttacaaa ttcagttgaa agcctttgan 180  
atcaaacttt gccactggtg attgattaca ggaaactggg aatcgattac cagagagtat 240  
aaactctggg aacttagaaa aatttgagaa aaactctttt gaaaaacaaa actgtgctat 300  
gtttgttttt ttgaaaaatc ttttcaatac ttcccttggt aagtcttctt gatttcttct 360  
cttgaatctt g 371

<210> 14161  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14161

```

agctttttta taaagcctat caggnatgcg ccaagggcga ctgttccatg gctctatgga 60
ccctgcttca aaccgcgaat agtgccttct ttaatagaaa cacctttgtt tcatctcctt 120
ttgcaacaaa gccttcaagg tgctcaacat aaatctcttc ctttaggaag ccatttaaaa 180
aggctgactt gacatcaaac tgataaatct tacattgggtt tgggttgaat agctagaaca 240
ttctgattga tctagccttc aactggagca aagtatcaaa taatctactc ccaaacttga 300
catacccttt accactacat tgcttata 328

```

<210> 14162  
 <211> 639  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14162

```

ntagattaat tgcttgnacc aggtttannc ngnnatnanc tntannanna atnaaancca 60
cnnngacgcn tnacanaaga aacaacncac gcgcctgcac acggagaagn gatcttttat 120
gtgtttgtat aatgananna aacnntatca atgngcgatc cgcgttggag ttattgttat 180
aatttatctc ttacacgtca attcatttaa aatatatann aaactacata tatactttat 240
tcaaagtata taagataatg gatacctaata nnngtgtgtt ctggaaatnt gatgggtgtt 300
tttataaaaag tagcatcaga tatctgcatg tgtcattctt atacaacttc angagcaaac 360
atgtn tacta acatctaaga ctnttttcaa gtgaccaacc tttaatattg ttttatgttg 420
cgtcacccat tcatatatca tacaccactt cttacaatct cttcacaata tgtaaataac 480
agttcttcta catgtagatt cattttacct taatgaaaac ataccattaa cctttgagaa 540
ataagngggc tgatggatat tnncaatctc ttaacgaaat tacttctata taatttttat 600
aactgttaga gacctatgta agtaacgtta atacttgag 639

```

<210> 14163  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14163

tgctttcttc ctttgggcca tttcctgoga aagcaaacat tnggaaagtt agttttacca 60  
agtgggacac tttactctta anacanaaaa tgacatacaa ccttcctcca ttaatacaaa 120  
catcaatgta natttagagc aagcctattg cgcataatnc cctacgaacg ttcacttgca 180  
caagacatcc tattaactaa gaaaaatgca cccatataca atcaaggtag cttcattacc 240  
tagattattht acatgtactt ccaagggtga tttgttattt acatcacaca cgcctncttg 300  
gctaaattta catacatgca tactcaaaac atttcgggggt accaaaaatt gcacatgcgc 360  
tcactnnggt atttctaata cctatacata t 391

<210> 14164

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14164

aaaacgtttc cccnaacttc ngcanngcat anctgganac tatgantact cagccttctt 60  
actgaggtcc gatccaggct aatattaaat caaacctcnc aaaataaacc atcgaagcct 120  
cttgagaatt tcaatgggccc aaacctttca caccgatgtc tgatatcggc gccttatatg 180  
tccattcgct tgaaaatgaa ccacggaagc ccttgagaaa atcaaaggt cataactttt 240  
caaacggatg tctgaattcg gcgcataatt tgctcgagacg cangaattga caacggaagc 300  
tctcgagaga ttcaaaggt cattaacttt cacacggatg tcagattcng gcacataata 360  
tgctcgcatg ctcggaattg aaccacggaa gctctcgaga aattcaaag gtcataactt 420  
nttcaaacgg atgtccgatt aagggtgcac acatatagag acgctcgaaa atgaacaacg 480  
gaagctctcg agaaattcn 499

<210> 14165

<211> 67

<212> DNA

<213> Glycine max

<400> 14165

agcttgctaa ccaaagctc accactacta aaggagaagc cttcagggtg ttttaataaaa 60  
ccctcct 67



<210> 14166  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14166

```
atgcatggaa aatgtaatta tgaattgat atgccgaat ttacaccatt tcctagttaa 60
ccatgcatta ngtaccatgt tcaattatgt tgtttttaag tgaaatgggg ttatgatccc 120
aacatggttg gctcgtggtg cctaacacat gaaactaaga atgtaatgtg aagtttcacg 180
cttccccctt ttttgttttt gttttgtaga ggaaaaacac aggatgagca aacatganaa 240
caaatggtat gcaattntgc agatcaaaaa gtttggtgaa cgcatatgca tgatgatgcc 300
atgactcatg caaatgtga ggccggaata tgataacgga caaatgcagg atatgtccat 360
tatgatgtta tgaagagatg cttatgcatg gcatgatatg aatg 404
```

<210> 14167  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14167

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ggagaaagct aggaantgct ngattcagct cggaccggg atnctcta atcgacctgagg 60
cgtgcaagcc tatttatgtt tatgctcaac aaggaggcgc gggagggtccc caaagaaaat 120
agaaacctta gtttaaaagg aacctcttct tccttcataa ttttgggcat gagactaaaa 180
ttatgactta attaggaaca cttatggatc ggggcatatc ttccaaggag ataagctttt 240
ttctttctaa ccggaaatct tctggcgaat tttcattatc ttaaaaaaga ccaccatctc 300
agtggcaggt ggccatcata cattggacca ggagaatctc tcttctcttg gtgagccaac 360
cccttaattc ttgtccaag aattatgaac cctaccaaga cag 403
```

<210> 14168  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14168

aaaactcnnn taagggctag cagcgtcgca tancactaa gctggatact tacaaaattt 60  
ttgggatgtg catctcgcg cttatttcaat catttttaac ctaacgccta tccctggggg 120  
ccggttgggc ctaaccaacc tggacctcct aagccctatt aactaaacca atttttggaa 180  
ttttgccttg gcgctacgcy ctaactccaa ttgctaccgc aattggtggc gggttgaata 240  
aggctaagca aggcttgctc gttaagccca ataatgccta gaattcaagc cgggctaagc 300  
aacaaccttt cgcaaagccc tgggttataaa cgggttggct ctgagctaag cgactgctaa 360  
tctcgcttag ccaataatgc agaaaaaatn tctgtcatac tcgcaaagc acccctgtgt 420  
gctagccaat gaagtattct cataacacgc ctangggaca tgctttcctg acggccctaa 480  
gcg 483

<210> 14169

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14169

nnaataaact ttcatnatct gcgactactc tagtacggcg cgatgcataa gtnaactgag 60  
agggtccaac cgatatttgt tcgcccccaa accataacct tcctttttaga gtacatatat 120  
cctggtaatg tgagaagaac cgggttctctt ggtggaccgg caatttcccc caaaccggct 180  
ttaagaagaa ccattattac caccctggcc aacatgggga gggtgggtgga gttattattc 240  
ctgggtatgcc attatttggga ccaataaaaa ttaaataatcc ttaatcaact tgccaacaaa 300  
tatttgcattg tgtttattta gaccattnct atatactata gtatttgata tttaatgaca 360  
acaanaatta ggaccacata atattaatat taaaaacgat gatcatttgc ttgactatgg 420  
ccatgatact gtcatagaact a 441

<210> 14170

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14170

aacttttttg aattcgnana gtaganctgt gananataaa gcccaaacac atggacctgt 60  
 tgtcccgga ttatgcaacg gactcttatt agaataacag gcctggggaa tattggacgt 120  
 tagtattgcc gctataccgg cgggaagaat ggtgggtggc ctaatgggtg ccatggaata 180  
 ataacctggg gaaggtaaaa tgggggttga acctggaaaa atggattttg aaggaaaaat 240  
 ggaattgggg ggaaaaatgg gaatgggggg taggattgga accctactaa taatactccc 300  
 cccgaacca acctaactct caaattaatc ctgatgcca gcgacaacct ccgtaaatac 360  
 ctgccccatt atgccaccn tcaccataat ggtcacaatt acgctgagaa atatcgacat 420  
 aagcacgccc tacgccccg cctctcatca tccccctc agctccccat agccctccg 479

<210> 14171  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 14171

tatgtgtcta tacacatgtc cgcgaaaaat ttataaatTTT ggccatataa ggctcacggc 60  
 tataaaattg ggaccaataa tcattacctg gacgggggac cggtttagaa gcattgttat 120  
 tctgaccgag attgatatga tcatggctgt gccactcctg ggacctgacc tgtttcttct 180  
 aataatataa tcattgcctt taaaaaatca tatagtgaag gatccctgta atagaaataa 240

<210> 14172  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<400> 14172

taacttataa aagtttacct attatttctg aaaactttct tttccttttt accctaaatt 60  
 tttgaataca ccaatgtatt cattgggtga acctaatacc ctaaggttta accctcttca 120  
 tattattttc cggaaaaatt aaaatttttt caaaaatc 158

<210> 14173  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 14173

ttccatagag gagggAACCT acgtggccta ttttttatac ctccttaata catgttggcc 60  
 attacaccta tatgtctact tgtctaaatt ttgggattat ccgagatgag ttgattgac 120  
 tacaatttgt gaacttgctc attcaattgt gatcttgagt gtgactttct atttgataa 180  
 catagagaga tgggtgaagta gagtgaactc gaagctctct aataatattt gcatgttgga 240  
 tataagccta acagattact gagttaattc ctaatgcctt aatgtgagtt ttacatttga 300  
 ataaatgg 308

<210> 14174  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14174

aaattttgcc tttgacgacc acactnanat ngagcangnc canagagatc cagganggat 60  
 aaagcggccg aaggacttan ttttcttcc caatttgaca gcattcgctt taggacctct 120  
 aaacacaacc acccctccta ggccataaag ggatggcatt tcttccggaa ccaacccttc 180  
 caccttaggg ccaacaagtt tcccatattc aagaagaaaa tacctcgccg cgcgtggcct 240  
 atattgtcaa ccccatgggc caagtccaac caaaacttat cctcaaatt tattccatt 300  
 gctggcccta cagaagaagg cgtgccaaaa tattaggctt gggttgaggg gcagtggatt 360  
 cccttttgat gcagatgcta tcgccactt cctgngatat ccttatatgc ttgaaaaggt 420  
 caagaagtga agtattggcc aaagaggacc cgtccatgg ttccatatga tgccatccca 480  
 ttn 483

<210> 14175  
 <211> 54  
 <212> DNA  
 <213> Glycine max  
 <400> 14175

atatacatat atatatatat atatgtatat atatatatat ctatatgaga aaga 54

<210> 14176  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14176

acacgaatga ggaagtgtna angggtgaag ctgccggcta tttttnttt cacttagagg 60  
 gacccgga aaagtcgcgg ggggttaagaa aaccttggga cctcaagtgg ggtgctattg 120  
 gccaaaacca aacttgacca atcctgaacc aacctggggc taatccgtca atgaaaacct 180  
 gtgatggacc ttaaccagcc aacctctggc agtccaccag ataaaggac caagaacacc 240  
 aaaccaggag gcttgtggtg gcttgccaac tatgaacctt gatgatgtgt gagatatggc 300  
 cctcttgtaa tcgattacca angggtggta atcgattaca aggcttaaaa atgaagacag 360  
 gaggctaaga tgggtctctgg taaatcgata ccacngngtg taatcgatta ccangcttga 420  
 naacgaggtc aagagctatg aaggcttttg gaat 454

<210> 14177  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14177

ccaatcttct tgtattccta cttggaggga tctggatacc gctttcttag gcaatatcag 60  
 tccaatcttg atttgcttct ggaccgtctt cactggagaa tatgttcaaa aaagaggcga 120  
 aacctttaag aatatgcgca cgattgaagg atttggcggc acaagttctt cttccatggc 180  
 ganaggagat gatcacatga tggggacact ctgctgtgtc tctatgagaa cttgtaagta 240  
 catgccgcca ctttcggatc tgtgtttgcc gggaagattc aggttgattg aaagaagaaa 300  
 attgattcgt ttctcacaaa gcgattgcaa aaaattcggc accgggcaaa aggatgatga 360  
 atcccttcn 369

<210> 14178  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14178

aaactatatt atctacacca aaggacact tctctatatt tgcataaagg gtgtttttcc 60

taaagactga aagaacttgc ctgagatgtc ctaagtgatc atctangctc ctactgtaca 120  
ctaaaatatac atcaaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 180  
gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc actagccatt 240  
catacaaacc aaacttggtc ttgaaagcga ttntccactc atcacctnt ttagtcctga 300  
tntgggtgata accactttta 320

<210> 14179  
<211> 327  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14179

atcttgtgtg acacacttta nagttcaact tctatcccta tctctcttca atttccactc 60  
tctctctttc tctctctctc tctctcattc tcttccctca ttgaagcttc ctctctaagc 120  
ttcttatcca aggcactctc ttagtggtga agcttctcct tcatggctta ttctctagtt 180  
gatggtacct cctctcacct cttctccttt atcttctgct tgaactccat ggcttaaaat 240  
caccattgaa ggacctcatt gaagctcaaa gatccagcct gcatagaagc ttctcaagca 300  
agcttccatc aagtggtaat caaagca 327

<210> 14180  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14180

tacaaatctg ttttaagtcc aagcccataa ataatttaaa ttctagataa gataagacaa 60  
aatctagatg aattaatatc tagatgaaat aaaatctaga taaaataata tctagatgag 120  
ataaaatcta gatatgataa gataaaatct agatgaaata atatctagat aagataagat 180  
ntggtagcat aaaattgtct gctctcttca agtccaagcc caattccgga ttcaaaccba 240  
attgcttant aatttcctga nattaaatta aaaacacaaa attaatccag taggcccbaa 300  
tgataaaact gcataattaa ttgacaatt aaggctaadc agtaattaaa atgggtgacaa 360  
aaaggggtaa gaaatatgag aaaatgatga cacatcagga cgacagcttt taattaaatc 420

cacaatacca tgacttcaga atgggtttatt

450

<210> 14181

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14181

agcttttattt ttgcttaata tatcactttt tagttgacta tttttcttat tagcttccta 60

ctattagtgc aaaaccattt tgctatngtn tcatgttttt tttgctcgtg ttgtgggttt 120

gaatttgaaa attgaacgtt tgtgcttaac tttttgaact atacggtatg ttgttggttg 180

gatggcacta tatcacatga atgcattntg gtttgcaacc tgggtgtgtt gcaaggggtt 240

gtgaagcgaa ttttaataata aataanatca aatgctttct ctctgggttct ttgtatatatt 300

aattgaaaag tatancatat ctatagagta tcttcaatta tacttaaaaa attaagtatt 360

atattaaaaa a 371

<210> 14182

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14182

actggatgca ttgggttaact gggtttctca ttggccttga atcaaaaatt tgtaactgtc 60

gcaagggtn tgtgggttgt gtcctctgc tgaccaccat acagacctt gccctttcat 120

tgcagaacct ggagcaatng agcagcctga agcttattgc tgcaatattt acaatagaac 180

ctcccaacca cagcagcaaa atcaaccata acaaagcaat tatgacctct ccagcaatag 240

atacaaccct ggatggagga atcacctaa cctcagatgg tccagccctc agcaacaaca 300

acagcagcct gtccttctc tcaaatggt gtggcccaac agacatacat tcctcaccaa 360

tccacaacag cacaacccca gaacaaccaa cagttgaggc cctccacaa 409

<210> 14183

<211> 88

<212> DNA

<213> Glycine max

<400> 14183

tgcaaccttt tttaaaattc ttaaaccctgg ttaaaacata attataagtt ggattgccga 60  
aggatatatta ttgaacccat caccttcc 88

<210> 14184

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14184

ttcgtggagc ttacagacca tgtcttttga aatantctat caaccttgta tgcccgtatg 60  
gtgggtangg attagcnnac caaatgagca cccctgtgga aatcgggtcta caaacactaa 120  
tatcatcgtg aaaccctggg gattattgca gcccctatta ttgaaatcga ggacaaatct 180  
ttccatatgt gggaaggat tggaaagagg tgcagcaaac cggcagccct tctttgttcg 240  
tattttgtct gttcgcacga aggacattgc acgatgtact ggcgacatc ttcttgata 300  
tgtggccagt caaaattctg tcgtanatga tggagagtct ttgatacccc tgtgtgattg 360  
tcgag 365

<210> 14185

<211> 221

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14185

agtttgtttt atcggttatg ctagaccgag accaacaagt tagccatcat catcaagtac 60  
caagaagaat taaatctagc cacggccac gagcaciaag tgggtggaaa atatgccc 120  
gtgtacgcgg aaaaggaggc tagaggaaag gtgattgact cgttacatca agaagcaacg 180  
atgtggatgg accgatntgc tcttactttg aacgagagtc a 221

<210> 14186

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14186



aatgcctggt gggtagtag aattctcctt ctgtttangg tttttgtgat gatgtttgtg 60  
atgtttatat gctgaaattg ctgatggaaa tctgttagag acgaagggtg gaactaacc 120  
aaggtagaa agtgagaatg tgatgttatg agtgaaaaan aaagagttag actntgagag 180  
ttggaaggct aagtctgaat tctgtggtaa atggagggtta gaggtagtta atactagctt 240  
gaaatgtcat ttagaacatg tgagaaagggt taggctgagc tagagagaaa aacaaatgac 300  
caaagtgaac aaagagccat tgctagggca aatttgggtg ttgaagagtn caaatttgat 360  
tcggtgagat tntaggtgta aatccagttc gaacaagtct anatggatgt tacggactgg 420  
tgtg 424

<210> 14187  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14187

ggttttctag cttctatgac tttaacacct agctgtcagt tgtatgtggc tgtactgtct 60  
taatacaggt ttttaatacat ggcttacaca tatacatgta tatataccag gtagtaccaa 120  
tgtgcttcac ctgaactgga tataatgaaa catcttccac aacaacacca atggacaaac 180  
caagttcaac tacaacagac taattcagct tcacctgaag ttgatataat gagtaatggc 240  
attagaagaa ctcacagcca aaccaagttc aagtacaaca aactaataca gctttttctc 300  
aaccaaagta tgtcanacta ctttgtggct ataaaagtng taggtattca tgtg 354

<210> 14188  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14188

ttttaatgaa tccattgcc aaggatttcac ttagggttgc ttatctcttt tatgccaaac 60  
aaacttgcc tttgatgcct gattatTTTT ataaataact ttatttggtc aaaaaatgg 120  
ttgcgaaagt gttatcttat ggtctctttg ttctctttac attaccctt gttgaatcta 180  
aagttagtta tgatgcatgt gatgttttcc aataaaatct tttaaaactt aactctaaag 240

gtggagaagc attttagtga ttttcttatt tccaatagga aagtttacta ctttcttggt 300  
 ggtagaaaat ccattctgaa agatctaatac tcttacatag atntcttttag 350

<210> 14189  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14189

agctncttgc caaatggaat taccatgaat taattccttg gatagcccct tggagccaat 60  
 tttccttttc cttgggttgg aacctaataa caggcctaag gggaaaaaca tgattcaacc 120  
 ttaccttttag ggaatttggga agcttgggaan tggtttggaa taagctggaa taaggtgggg 180  
 gggatggttc atgaagattg attttggcat gctaagtgtt atttgccatg ctgatgatat 240  
 atatatgcta agtcttctta atcttcaatt cgactgtcat aaaaaaatg aaaatgaaaa 300  
 aaatcaaaaa aaaaatcaag tgcggaatct gcagttcgac tatcaaaaaa aa 352

<210> 14190  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14190

ntgttggtgt ttggacttca gatntagtgc atgtttggat gtgtnnattt atggaatgac 60  
 cacttatttt gcataagctc tctcaciaag ctgcaaaaat agtgattatt ttctcaagat 120  
 aaactgaacc aaacatgcgc taciaagaga aaaaattgct aagggaagat aagtttcctt 180  
 agggcttggt ttggataaaat ttttcaaaaa caattatagg agaagaaaat aagaaaaaaa 240  
 tatgtgaaaa agcttctcca taagccaaaa ttaacttatg cataagctaa tttgtagaaa 300  
 ctctcatatt agcttctcca aaacttgatt ntagcttac gtataagtta attttagttt 360  
 atggagaagc tntttccttg gtttcttctc gtgtaagtgc ttttagagaa gtttatccaa 420  
 acaaacccca agtctaaac aat 443

<210> 14191  
 <211> 259

<212> DNA  
<213> Glycine max

<400> 14191

acgtaataaa ggctaaaatg aattccaacc aatcatttgt gttgtaatgt catttaatca 60  
atgttaaaac aaaatctaac cgatcggttca cgctataacc tcggttaaac aaaaaaaggt 120  
aaaataataa taaaataatc aaaaaaatca atcggacggt tttctttgaa agtttccttg 180  
aattaattga ctaataacc aagtgaacc aaggctaaaa tcaactcaca aatcaagctt 240  
gtcccgcaaa aatcactca 259

<210> 14192  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14192

ggattacaaa aaattaaaaa aagaggtctt tccaaaaagg aaacccgagg aagtccccac 60  
caccggtatt ttaaggaaaa accaggaaaa acaaaaaggg ataaggatat tctatagtta 120  
agaaaaggat tcggagccgt tattcatggg gaaggтата cactcacacg cccgcatgaa 180  
acgaaatctt aatcgatgtg taaaataagt acttttgata ttatttcctt gaaaataata 240  
tgttgcttat ntttgtaatt agaaagaagt gatttatattt agaaa 285

<210> 14193  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14193

gcttgcacac ctatattagt tattgtgagc gtctgatgta aaaatacaag ttggttcata 60  
aaaatatgcg aaaaaccacc tatatttatg ttatatccat gtgactgocg ggatatatag 120  
gatctgagtt ctggaggaaa gaattacctg ttaatggata cctgaatttc atagcctgga 180  
tattaccttc tggtcggtt aaaataatgg tgaaaaaaca ttttaagcag aacaaaatat 240  
tcaaaagaat taagtaggta taaagcaatg gcaatgcaat ttttaacata ttatcagctg 300  
atgaacatct atgattcatt cactaaacca aaaattaaan tgcatatctt caacagctgg 360

catgcctttc gtggatcaag cttctctaca caattaatct gtagtacata tgtttattcg 420  
gtctcccn 429

<210> 14194  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14194

nnnnngggga cttacgatgc acgcacaact ttgaatacta agcttgcaac aagatgtaac 60  
gttcattaac gtaatcaaac tttttatttt ttggggacca aaatctatag tggggaaaaa 120  
caatgaatgg gccctatctc ccctatttaa ataatgctct tgggaatggat gatgtgcatt 180  
ggccccaca catcatatat gggattttcc tgtatgtggc taccacctt gcacagtgg 240  
aaagatgctg tctggaaaaa gatcatgagc ttgtgaacat atctcttcta ttatacactt 300  
gaatttaaaa tgcgcagtta ccagtgccaa aaataccng tgatcttttc gccgtgtttt 360  
tttgggtaaa cacttttggc ttctctatc ttaataaacc accagcttgc cttatatgat 420  
ctagtctcgg agtttccaac ccataacaat gc 452

<210> 14195  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14195

ggagttactt gatantcggc aattccactc gggacccggg atcctcttna gacgcccggc 60  
aggctggcac acccggtttt cttactgtt ttccaagggt ttaaattggc ccctcgggtg 120  
ggcttatatg ggtcctggat taccaaaaaa tgggtggataa naatggccaa tgtggccaca 180  
tttcggctac attaaagcca cccgcacctc aggaaccct tgatcttgcc ggccaatcac 240  
aggtgcagac cttttttta aaccttgcta cctatctatt tagtatcaat gacttaagag 300  
taagacttcc gtgaaaatat tacanacgaa ttattaaccc cataaaccag ggacaagtng 360  
aagagtagag ggactcccta aaaanatatt agagtagagg gaggaagtc tttntgagag 420  
agaaaatagc ttanggagaa agaaattcac ttttcacata ttttgn 466

<210> 14196  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 14196

tgaatccttg aattccaacc atggtaatcc tttgggatga gaatctctat aatatggaat 60  
 ttttgggtgg gtattatttc accttttcaa aaataatgag ttaattaaga atgtgcctat 120  
 gatgtgaaat aaccttacac cggccctaaa tttaaaatat tgtctattaa ggtaaccaat 180  
 ttattataaa taataaatTT tgaatggacc atgtgaaatg gttttattgg atccatgcct 240  
 aatccttttt ctccttaa 258

<210> 14197  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14197

aaanaacaag gctaagcant cgtgcgaatt ctatctcggn accccgcgga ttcctctata 60  
 agtcgaacct gcgcggcggtt gggcacgcct ataattatat tatnntaagn nngctcataa 120  
 aaaatccctc ttggagagga gactgcgcta tatcgagata cacctcatat actctatata 180  
 tattntataa aaaatatttc cacatattgg attgggccta gatttaaata ttgctatttg 240  
 gattggggccc tttggagggg cgcttatccc agaagaatta tattggggcca tttttcttaa 300  
 taatggttta aaccttccaa tattatatta agaagaaatt attgttgcct caaccgcatt 360  
 aaaaagattg ttacctttca aagggtgccc tggtcctttt tctttggatt gaaaacagat 420  
 attatactat gcaaaggata tncaanatng tattagctta ttttaaaaag aaaaaaatg 480  
 gcattccggt cgcaaagtct aacttn 506

<210> 14198  
 <211> 654  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14198



ttttttttct tatgatgggt ccattagaaa aaacctaaga atggcttgga aaccgggatt 60  
 aaaagaaagg gacttaaccc ttaccccgat ctggccgtag aaccaacact atcgaattct 120  
 taacccttaa acaaaggaaa agttctcaca atagagaaac tctcaacttt cattagtctt 180  
 caaactctgt tnttggagag tacaagagtt ccctatttat aggctaactt tgaattgcta 240  
 gaataattct gactaacatg catttactgc atgcattgan taatgcatgc ccactaccta 300  
 ngaaaatgag aataaacatg aaaattaatt cccgctagcc actaaatgac ttagagaact 360  
 tctaggaagc attt 374

<210> 14201  
 <211> 159  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14201

agtttttttg gaagctacct agnctataaa tagaagcttg tgtaacactg gttggacctt 60  
 tgatgattga aagtctaataa aaatacactt caaagtgccca cttcttttct tctttaattc 120  
 cttcaattcc tggctccgc cttctctctt tcttttct 159

<210> 14202  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <400> 14202

ggaatcggac ctcaagtgtca aaagttatga ccatctgata tttctcgaga gcttccgtgg 60  
 ttcagtggcg agcatctoga catattatgt gccgaatct gactttcgtg tgaaaagtta 120  
 tgaccatttg aatttctoga gagcttccga tgtttaattt cgagcatctc aatatattgt 180  
 aagcctgaat cggagctcag tgtgaaaagt tatgaccatt tgtatttgtc gaatgcttcc 240  
 ttggttcaat tccgagcatc tcgacatatt atgtccccga atctgacctt cgtgtgaaaa 300  
 gttatgacca ttcgaatttc tcgagagctt ccgttggttca gtttcgagcc tctcgaaata 360  
 ttatgcgcc gaatcggaca tccgtgtgaa aagttatgac catctgaatt tctcgagagc 420  
 ttacgatggg taatttctag cgactc 446

<210> 14203  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14203

agctttcttg ggccatttcc tgtgaaggca aacatttgga aagttagttn taccaagaaa 60  
 tgctactctt aaaacacaaa tggcatacaa cctcctttaa taaacacaaa catcaatgta 120  
 aatttagaat anactcatgc acatactccc ttacgaacgt tcacttgcac aagatattct 180  
 cctaactaag aaaaatgcac ccacgcacaa tcaaggcacc ttcgtcacct agattatnta 240  
 tatgtacttc cgaggtgtat ntgttaccta catcacatgt acttcctttg gctaaattac 300  
 acacacgcat actcaaagca ttntggctac caaaaatcgc acacgtgcac attcttgtat 360  
 ttctaatact atgcatatac aac 383

<210> 14204  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 14204

tggattaaac aacggaagct ctcgagaaat tcattttggt ttaactttta actcggaggt 60  
 ccgattcagg cgcgtaatat atcgagacgc tcgaaattga acaatggaag ctattgagca 120  
 attcaaatgg tcataacttt tcacttggag gtctgtttca tgcacataat atatcgagac 180  
 tctcgaaatt gaacaacgga agctctcgag aaattcaa at ggtcataact tttcactcgg 240  
 aggtcagatt caggcgcata atatatcgag atgctcgaaa ttgaacaacg gaagctctca 300  
 agagaatcaa atggtcataa cttttcacac ggaggtcaga tttatgcgca taatatatcg 360  
 agacgctcga tattcaacat tggaagatct cgtgaaattc aaatgggtcat accttttaac 420  
 acggag 426

<210> 14205  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<400> 14205



agcttaatat acttagaatt caagtgatca tgtatccga atattagggg gaaaaaccgg 60  
 tgcccccttt atctatattc cattgggttg tgctgcctg gatcctgaat tccaggattg 120  
 gattggcctc atccaaaagg ggggaaatgg tgaagccatt ggctttgatg gttt 174

<210> 14206  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14206

tatgcgcata tttccttacg aacattcact cgctctttat attcttctaa ctaagaaaaa 60  
 tgcacccatg cacaatcaag gcactttcgg tacctacatt atttgtatgt acttccaagg 120  
 tgtactacct acaccacatg catttccttg gctaaattta catacattgc atgctcaaag 180  
 cctcttggct accaaaaagt gcacacatgc aaaccttatg atgaatcttg gctatctaca 240  
 caataagggtg ctacatttca tgctntattc aagtgttttt actacctaaa gccgcatgca 300  
 aattcaagta tattttcttt tgccgactaa natngtattc aaattaaaag gtgtttntgt 360  
 aagggtatttt ctttacataa catgcaacat atttatatat ttttgggaga cattntgact 420  
 accanaaatt atatgtacat aca 443

<210> 14207  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14207

tctttgtgtc ctcaannacc aaagtgggtc cccaagaagt atcgaggcac tctgttatat 60  
 catataacca catccagtgg taatccgata cacctaaaaa cacatttttg aaaaaccgcg 120  
 ctttttaaaa agggtttgag atttgaaatt ttggatcctg gtatcgaata ccagaagggt 180  
 gtgattggat acccaccacc ggaccttata aaacaccttg gaaaggcctg aaccttccaa 240  
 atattaccgg attatccaat accagaaacc tggatcgat taccaatgga gatttcagan 300  
 aaactttttg aaagacacat ctttcaacca ttgaaaggc acgaaggact attatgtgtt 360  
 gtcagacttg aaagcagaga agatatctag agacttaatg caan 404

<210> 14208  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14208

tgagaagcac aaccaaaaaac tagtatgctt gtgcttaata tcttaattag nctttgggat 60  
 cactattcaa tgtattcaat ctttcttcta agaaacaact tattcacttc aattttctca 120  
 gttggtaaac attaaccat agaaattaaa atagttctta cacttcatgc tatagcaaac 180  
 atttataaga atttgagttg atttactgaa taaaaaaagc taaattgtca aaatgggttaa 240  
 ttattttgct ctttttcttt cgtttgacct cgattacatt gggtatccct cacaaatttt 300  
 actttagaaa gcagggattc gacatcagtg aacgcaaagc caatatgtta aaggaacaat 360  
 ttgggttggg ttggcggtt gagt 384

<210> 14209  
 <211> 200  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14209

atcttattgg tatggtcata ggtctnggct gggatgggga gaagaaaacc attgcaacta 60  
 gtgatgaatg gtgggaagcc aaaattcagg tttgtattat tcaacgaaaa tagagttttt 120  
 atgcaggcca atctttggtt nttatattat ttatgtggga tactngactt tgcggccaaa 180  
 attgcagttg cagaatgttt 200

<210> 14210  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14210

tgcttactta tgtggagaat gatgagagct tgaagtcagtg ggtgacaagg attcaacaac 60  
 tcagtatcaa tagaagaaaa ccttcatctc aaatgcatcg tgccaactgc ccagcagcat 120  
 ttctgctct caactttcct cattgtagat catccccgaa aacattcctt aggctcgcct 180

tcaggtaaga tcacagcatg tggctcggca tccaaacat cagagattat gaaacagttc 240  
 caaatggcca gagcatccag caggatctcc agccattgac ccatgttctg acatgccatg 300  
 cttgactcac agatgtcata ctttctggtg catgagggct catgccttca acattnggcc 360  
 agtttactcc atggaatcag ttgaatcctt cacttggacc atatccactt acttcccttc 420  
 agccctcatc tagtgatct 439

<210> 14211  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14211

ggcttcaagc ttgtatataa taggcctgat tcctcaagga tgtccatggt ataatttctc 60  
 taaaaattat gacaccatcg tggattgtgc caccaccatt ctatgaaata cgaagttttt 120  
 caagatcttt gccaaaaaat cattgaaaag aagtttcaac taaatgatgc caacatgcc 180  
 tgggtgattgt tagaaactac acatctattt caataaggat tctagaacga atgggtcaagt 240  
 ttccccctct ctttttttaa actttacata agtcctattc agcactaatt gtctctttaa 300  
 tttatatnt tcagtcaatt aaacttgatc tctaaaatgc tcaataacat tagatgtcaa 360  
 ctcttttgtc atataccaga acatgat 387

<210> 14212  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14212

aggatgtaaa cagatttgga accttcatat gacttttcac gaaataatgg agaaataaga 60  
 agagaagaga ggtttaagag attcttacca aagctttgag agaaaaaaaa aacctaaaaa 120  
 aactaatat ggagcttgga agaagaggaa atgggtggcct cttagtaagt gccatatttt 180  
 agttattttt gggattagaa tgtagtact tatcttttga ttttaatagt tttcttataa 240  
 acttctttaa attctagttg ttttatatat tatacgnta taaatatttt tttaaatatg 300  
 gaagattcat ccatgcattt cttatgtttt gatgggtttt tgttggatct agaatccaag 360

ccaagatgaa gagcaaaaag tgtcattctt gaagaatctc atagtgccac atcgcccagc 420  
tagcaatcaa ct 432

<210> 14213  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 14213

tcaaaaactt ttaatgttgg agatttagtt tggaagggtta tcctgcccac agatagtaag 60  
gatcgagctt ttaggcaaag ggtcccaaaa ttgggaagga ccgttttaaaa taattcagat 120  
ctattcgaat ggtgcttatg agtttagagga gctaaccctt cagaaacgta ctttgagcat 180  
aaatggtaag tatttgaaaa aatataaacc aacactactc gaagttaaaa taagcataga 240  
ataagagaaa taccggaaac ataaaaatgg cgataacagt aaattgccac gaaagggcat 300  
gtgtcaatat tacatcgaag agtaaaatcg aaatac 336

<210> 14214  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 14214

ttccactcag actcctagtc actgctattg ttgggtttca cccctaacga acacatcttt 60  
tttagtgccc catcatatac ccccttggat gaactagtta acgcttacgc actggtgggc 120  
ttctgtgggt gtacaagtaa cacacattag ctggctctct cgttatgccc gtccgactcc 180  
cactagactg atgcatgcac actactctct gatggactgt caaagctttg gaatgcgaat 240  
taaactcttt tgagattaat ttagtatgta acaatcatta aagcaatt 288

<210> 14215  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 14215

ggaaaaacct atgtgcctca ttgaagttag cacccatctt ttataaaact gatgggagaa 60  
tatccaatca acataaccac cttgaccctt ttgcaccca tttttagggc ttgttttgcc 120

accacagaga gcaacattct cccaagcccc ttcgtcttat aacactccct caagaacaag 180  
 ttctccatgt aaaaccctcg cttctctaga acgagagaga agttcggaga aaacaagaca 240  
 aacccaacaa tggaacacc tctgaagggtg tttaaattgt agtttctcga gataactatt 300  
 acttaatggg aaataatgat gaataattaa t 331

<210> 14216  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14216

gaagtatact cgatgcatgc agaacnttng atactcaacc ntgtaagcct aagccatagt 60  
 attgagcaca tgcagggcct acttatttcc aagtaatgga aaatggntgg aatcaacccg 120  
 acacaatgag ggagcaataa atgtcctcta taaacaatgc accggctaata tttcacccaa 180  
 attaaccctc catacatacc agttacacaa cttaatggga cagtattccc cctgtgcaat 240  
 gacctctcta cctcacaca aattcaacgt gtgactcata agatacaata caatttcagc 300  
 aaacttttga attaagatcc aaacctttat ctaatcacia caatcatatg cagtggatac 360  
 aaatacacgc cagtttgtga ctctcccgtc atctccttca ttcttgctta tttactaaa 420  
 cttcacagga aatcttatca atatggcgtc tggtttgtg gatattggga tacatccgaa 480  
 tgatgtctn 489

<210> 14217  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14217

ggggaaagga aagactactt gtnatactng cannnctcag agancngccg acaccncag 60  
 agaggacccg agagggatag tgaaagccaa gtttttttat ctntatatcg ccaccaanaa 120  
 agggcgagct tcaatggaac ttccaaaaaa caattattgg cgttaaattt gctccaaagc 180  
 tcaacattca attttaaccg ttccgatatc tgaggggact caatcagact tccgataaga 240  
 aagtattgtc ggttgaatta gctcagagct tcagcattca atttccagcg tataatatgt 300

gaccggcctc gaatatacat cccaagacaa agttatcgtc gggtcggatc gctcaaaggt 360  
ccacatacca tttcaagcgg gtttgtttat cacaggcctc aatcgacatc cgagtataag 420  
atatatgggc atggatgttc caacacttaa acaatctatg taaatcacia atatataaccg 480  
g 481

<210> 14218  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14218

aggtgggtac tcgtttcatg ncatacagaa atcaatagcc attaaacgac nnacggggggc 60  
gcggaagggtt gttgttcctg tcnaacaag acgctgaagt gagtgtgaat tctgacaatc 120  
caacgacata cttttactcg atgctggatg agtccggaat taacgaaacc tcaaataaat 180  
gtgagcctag aacaatcaac gaccatactt ttactccgat gtctgatggt ccctcaatat 240  
cagacctcaa atttatgtga gctctaccat tcaacaacia tacttttctca atgtctgatg 300  
gccggatata,cagtgtcaa ttgatgtgac tctgaccatc aacacatact ttactcgagt 360  
tgttgggtccg cttatgagac ctgaatgaag tgat 394

<210> 14219  
<211> 537  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14219

gggaccttga tcnctccctg gtatnnccta tacnntctaa tttcactnaa tccntaccnn 60  
cggagannnn gnnnggannn aaacagagag agagagagca agcttcattt cttacaccna 120  
ccacaacaaa ccacacaggc gaggggggccg cgatgacgac acacaacaca acacaacccc 180  
cacacgcacn gggacggaga acagaattca aaagcgaacc ccacgagcac aggacgcagc 240  
cgcagacgac tcacatcgca accgagcgac acgggataag aaccgacacg caccgcatga 300  
caacggcgga acggcccgcg gagacagggc caacaaccgc ccggaccaca caatcaccaa 360  
cgacgggaccg accgccagag cagagacgca caaagaggct gcgaccaccg ccgaccgccg 420

cccacacccc gtcaaacgga gaaaggacac agaacgaccc gacagcaacg aaagcgcgag 480  
gcagacgggc cgccgaacgg agcaacccga cgagagtcca cccaacgatg agccacg 537

<210> 14220  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14220

ggatgtaccc gtaactngan nachaagctc gacacggggnn aaaagangaa agggaggacc 60  
cctctttcac ccccaatcca cgcggcgcg acgcgcaccc nntaggcaca acaacgggag 120  
tgaggaacct tatccggaag aaactacaca cttggtacta atgggcatgg gaaaaatcag 180  
cggaatgaca tatectggat acacaaatca caatttatcc aaggagctac cttgccacat 240  
ttattgaggt attgaagcct aggttctata ctaattttta ggctactcgc tcattaataa 300  
atgtccctga cagaaaaaaaa tatcatcctt ggacactttt acaggaagcc ttggccaaaa 360  
caaatgcagg 370

<210> 14221  
<211> 482  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14221

tgggtttcgt ttcttagttt ttanantctt tganannatn cannaacnta gganaangcc 60  
aacagaaatt gagcgagget ttaancttca tgnncnnngc agncnnaggg ggggggacta 120  
ccagaaactt accgaaccgg cagngcnana tnnnccgaaa aagnacaang aangccaaac 180  
gagagcacac atagcaaaca aagcgcccc aaactagaga acgaaccgag acagggccca 240  
ccaggaacag agacggagga agcaagnacg aacgcatatc caaaangnga gacagngcc 300  
tgtgaagact gagacttcat tcaaggtttc atatggaagt tatattctgt tatctcggtt 360  
tcttataata ggatatcata atcaataatt ataaatactc acttaaatat tatataatat 420  
atctattgat atatattatc atattgaaat attgtattat aaaactgatt tcatttacat 480  
at 482

<210> 14222  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14222

agtttgtgna attaccccaa ttccaatgcc atatgctgac ttactcccat atctgctcaa 60  
 taatgcaatg gtagtcataa gcccaacaaa gactccttaa cctctgtttc ctagactata 120  
 caaccccaac gtgacatgtg cttatcatgg gggagttcca gtgcattcca ttgagcattg 180  
 taagaccttg aaacataatg tgcaaagtgc gattgatgca agc 223

<210> 14223  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14223

ccttgaatna aaaatctgtg cctatcgcaa gggtttgtgg ttagtgetcc tctgctgacc 60  
 accatacaga cctttgccct tccatgcagc aacctgtagc aattgagcag cctgaagctt 120  
 atgctgcaaa tatttacaat agacctcttc aacctcagca gcaaaatcag ccacagcaga 180  
 gcagttatga cctttccagc aacatataca acct 215

<210> 14224  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 14224

agcttgctct ccagctctcc caggcgagct agggtgcttc ctccagaagg caccgccttc 60  
 tggtagaact tcctggaagg cccaagtggg cctgattact attagtaccc actgtttact 120  
 aaatacatcc ccttgccctt ttgctgattc tttttccgta atgttaccga actttacgaa 180  
 tttcgaacag atacttgata tctttccgta atgttatgga accctacaaa ttacgttatc 240  
 atcccttttt ttgcttccat aatgttacgg aacctcacga attggccaca atgcttacat 300  
 ttgacttt 308



<210> 14225  
 <211> 53  
 <212> DNA  
 <213> Glycine max

<400> 14225

gcaaggaagg tagcttgctt gggaagcaag gaagacagct atctcgaaaa gcg 53

<210> 14226  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14226

agactcaccc tncggggcgg ctgtattacg cccatggcaa aaccggttact cacgttcccc 60

ttataacctt gcgatcatatc ttactgctat tgattgtgaa ttattgggtct tacggctgta 120

aagactcgct ttcttcaatg ctcattatgg gttatctaata tatctatctt atcac 175

<210> 14227  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14227

cacgcatgga tgggcttgta ttgtatgggtc aggatccgat aatcaaactt tatcatttca 60

tctaattgcta tgccttttat cgacacccaaa atcgactaga aaaagcctat tgtttctagt 120

tgtataatgc cctgtgacat ttatcaagta gctaaattga ccaaattggtg gtcacaaaaa 180

acaatgcaat ccaaattatg ttctcacttc gtcacacag gtcacactcc ttgaaatcag 240

gctctgatcc ttttatgcat gactaatgag taaaatcact tatttatact ccaaactag 300

atggtaatca tatatataat gggttatcaaa tacgtacaat aacatgtctc atntgtatga 360

actgctagta tctaaattat ta 382

<210> 14228  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14228

agcttggtttt ttcttattca aatnacnggg gggcacgagg ccgagcatac ctgagctaag 60  
 tgcatttcgt tgcggctacc attagctta tcgagtctgg cttgctaagc cctcgtactt 120  
 agtgaatttt ctgaatgtca ttgtgctgct aagcgcaacc ctgatgagct tagcgacat 180  
 ctgttggtggc aatcgctaga cttagcgggc acttgccctgc taagccgatt atgcagaagt 240  
 agaactttct acaacatctt gttagcggcc tcacatgtcg ctaagtgggt atgtgtattt 300  
 tgtgaaggtg agcttagcag accatgt 327

<210> 14229  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14229

attatgtgta tggatgggtc gtagtaggct ttaacatttt cgttcottatg tgatntgtgt 60  
 taacaatggt atttagaatg ggaaataaat gaaaggatag ctagggggga agcacancat 120  
 cattntgtat ttactggta tacccttttc tatgagatca tataccataa gtgcacactt 180  
 ttctgttaa caatcattgc acacctctcg ctcanatcct tcccactgaa atccaattgt 240  
 cataatggat taacttatat ctaccaatac aatacaagat catatcaatg tcaaacaatca 300  
 gtgtcagctc cctgtgactc ttatagcttt gctacaagaa cccacatggt ggcaagctca 360  
 ttttacaggt atgcttctct ttgctatgat tcttcaa 397

<210> 14230  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 14230

tgtgacactt gtagaaactc tgatgaatga cagtcttgta gacacaactc aaagttcatc 60  
 ttctctccct ttttcttcca tcaatatcat gctccgcat ctctatttct ctccctattt 120  
 cttgtactcc atagaagcat cctctccaag cttgttatac aaagctcatc ttgggtggga 180  
 agtccttct atcatggctt attccctagt ggatggagcc tcctctcacc tcttctcctt 240

tgtcttctgc tgcattctcca tgggtggaaca cacca 275

<210> 14231  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 14231

ttgataaaaag ggatgcgcca cattatttgc atgacacaaa tgcacaaatg atgatttggga 60  
aattttatgc acaactgggc atgcatgcac ctatgcggac actcaagtgt taaattatta 120  
tgggtcatgtg atgctagggc tcaggattca ttttctctat tttagtcaac ccaatgtttc 180  
caaaatatgt tcttttatcc atttgtgcat tcatccaagt ccatttctgg cgtccgggaa 240  
aattttacag cattcacccct ttaggtgaca cacatttttt cataaactag ctatgatcag 300  
cgaattattc ttcatagaaa agttggaagt catctctttt caaaagcatg ttggtgttca 360  
act 363

<210> 14232  
<211> 266  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14232

tttgcaagct tgttgggtgtg taacgcacca tcttttcata gtagaacact ggtactgtgt 60  
ctactatcac aatgatcatc tcccttttcg tcattgnggg tgccacctgg gctgccaaagt 120  
ctctccacct ttgggcgtat tctttgaaag attcatgcc ctctntagcc atgttctgta 180  
gtggcatcct atccggagcc atatcagaac tgtactgaca actgcccaac aaaggcaacc 240  
attaagtcct tccaagaatg gactcg 266

<210> 14233  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 14233

agataccacc agcatcaagg aattaggggt gttgatggat tctctccaaa tgcaagctgt 60

ccgcaagact tacggaaaga tcttagagtt aaccttagca gaggtatcca tagaagtcac 120  
 tgcatactc acccaataact acgaccagcc tttagagatac ttacattcg gagacttcca 180  
 attagtacca accattgaag aatttgagga aattctagga tgcctctcgc ggggaagaaa 240  
 accatatctt tcatccgggt gtctccctc tttagagcaga attgcaacag tggtaagga 300  
 ttcagcaaga ggtttggaac cgcataaaca gactcggaac ggcatagcgg gcctaccacg 360  
 ggggtacct 369

<210> 14234  
 <211> 133  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14234

tttgcattgt tgtttcgagg tacttaccgc tngaagatcg aagaacgatg aagaacgatt 60  
 gaagaacgtc gaataacggt tgaaatcttt gcgaaattcc tcacggaaaa cgttacggaa 120  
 acgtttcggc agc 133

<210> 14235  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14235

nttcgattcg ttctatgtac ccgtagtggt ccacattgtg tttctgtgc atttataatt 60  
 ctctattttg ttgagctttn tatanccccc tgttgacgtt gcttaagcca thnnttactt 120  
 aagtcattgt ctgcctttta cttataaaat ataaataata tttccaccgc aaccgtttga 180  
 attgcattat ccattaactt cgggttaaaat caattccgac cgttcggtcg tgccgtaacc 240  
 acgttggaac tcaaaaagag gtaaaaaata atataataat caaaaaatat ctttttagta 300  
 aaataaagcg gacaatcaag tggacattnt ctctttggga tttctcattc ttaatcgaat 360  
 tgattaataa ctaaagtga actaaagggc taaatcaatt cgtctagtca agctcgtcca 420  
 ta 422

<210> 14236

<211> 232  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14236

tatcattcct tgcctcggga ngaaaacaca aaaagaagga aaatcccca tcaaagaaag 60  
 ggagaaagca aaaaaaggaa agaaaattcc cattttaaag agggagaata agaaaataaa 120  
 aagaagaaag gaaatcctcg atcaaagatc ggaagaaaac agaagaaata tacagaaagg 180  
 tctttggacc agagaatatc tgaacaatac agaattgtca ccaagaaaac at 232

<210> 14237  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14237

aaattcacgc tcggctgatt acgtgcactt gcactaagc tgttgaatgc ctgttgatga 60  
 gtaaactacc cattctgttt agggttttgn gangagggtg gggagggttat atgcctgaat 120  
 tgcttgatgg aatccggtag aaaccaaggg tgaaacctac cttaagggtg aaagtgaaaa 180  
 tggatatggt ttaagtgaaa agaagtgaaa cctttaaaag tggaaggcgt tagctgaatt 240  
 ctggtgtaaa ttgagggtta agtgaagtaa tacttacctg gaatggtctt tangacatgt 300  
 gaaaaagggt aagcttgact tgaaaaaaaa accaattgcc caagttgacc caaaaccctt 360  
 tcctaggcca aattgggtgg tgaagagtca aattttgatt tgtggaaatt taggtgtatt 420  
 nccagttggg ccagtttaga ttgacgttat ggacctgtgt gaggtgagag tttgccttaa 480  
 atn 483

<210> 14238  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14238

cgtgcgagcc ttttttattt gcaagaanta agagaaaaan nccgtgcgc ccttaaggag 60  
 gaccctccaa gccgccgga gacgacgctt atgcttattc actttactat catgatcaat 120

tgattgggtc atggtctctc cttagcgttg aaataacctt cattaattaa ctcttgccctt 180  
aactatatat taatatatac ccttaactta taccacagat tattaatacc cccaatgggtt 240  
ctgggatcta catcacactc ataaagtcga ctcataatna ttctatccac catttaattt 300  
cttagacaaa tactttatta attaaatata tcttaatggc tctctttttg tttttatcag 360  
tgatatacat gtcaattttt tgttggtgaa cacatgaacg ttaact 406

<210> 14239  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14239

aaaacgatgn gcattgatac gtaattataa cnaaacgtgg gcaggaaaca cgtaccctat 60  
cacttctatt gtgcganang ggnngcaggc ctacgagcag aataatattc tcctctcact 120  
ctgattatag gtttttggag catatatatg gttgtcgcta gggcttatta attggtcaaa 180  
aagttgtggg atagagtcac cggtggcata tttggactag ttaacgtcat tctgtgaagg 240  
aagtatcgct gttgcaaaat gaacgatgct gatatatgag tgggtgaagt ctctaanatt 300  
acgatgaact tgtaaagggtg atatgataaa ttacaataac gtaaacaatt aacaaaataa 360  
aaaaagtcaa atgtgagggt tgtgacatct acattattaa tgtccatttg agactactga 420  
acgacactga atatctatca tcatatacag 450

<210> 14240  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14240

gggagtgtct tgtagnctc tgaattactc tgaacctgag atccttaaga gcgccgcggg 60  
cgtgacacct attttattta atagggcggg acacacccat cgaggtaggg ttacaacact 120  
ttaaagaggt ttataaccaa ctgaggattc aacagatgtg acatggacca tggctgctcc 180  
gctaagaaaa tatgctaata gctatgttat cctggcctgg tatgtggatg acatggtgat 240  
tgcacgatct aagttgacag aatattacat gtcgaaacaa actttgcaga taactttgaa 300

atgaacgatc ttggtctacc tatacaaagc cttgtatgag aattctagat acagatcata 360  
atgattctga agtgtctcag agaaattatc acacgtgctt gcagggtttac ctgatatcta 420  
agacaggaat acccttagga tctcattgaa ttn 453

<210> 14241  
<211> 479  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14241

cctactantg cattcanngc atncatacac antnnatact angcccttgg aggattanag 60  
ggggttggttc aagcattcca ccagattaaa atattttctca tagaagngaa ccaaattggg 120  
ccatcatcct ggacctttat catgaccgcc accaaattta agaaaatttt gccaggttct 180  
acacttcaga agaattattg cttagcctcc aaaagaacgg tggaacctgt gacaccctt 240  
gaatccgtcc tttaatatta ccagaaaatt attagggagg gtccttctta ccaggggtga 300  
aggttccagt tagccacctc catggacctt ctattatggg ctttaaccac cacctgatca 360  
agaatttatt gaaaaacaga atatcagata ttgagatgt tggctttgct ttctcagctc 420  
aatgcagata tgccatgagc agacaagaat ggcacacagc attacaacgt agtctagtt 479

<210> 14242  
<211> 470  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14242

nnccaagatt tgagtaactt cantattagt aaactccgaa ccnnaaatga accgaaggaa 60  
ggcaagcttg ttcaatttcg aaaatggcnc ngaccgacca aaaggaagaa tccacttcaa 120  
ccaatatcac ccttaggcac aaccatacat aacattcaaa tcatgacaaa ggtggacaat 180  
tagctagagt agcaaatatt atagcaatac taattgcaaa caacgggaaa ttgaccacat 240  
taaaattacc ttctggggag gtccgtttcg catccaataa tggctcagca acaatcaaac 300  
aagtgggaaa tattacagta aaccagaaaa atttaggcac angtggatct aaatgttgac 360  
ttggtaagca tcctatagta agaagagtat aattatgaac cttgagacca tccacatggg 420

gtggcgaaaag gagggaccca ntggtagaaa aacccagaac tccttgatg 470

<210> 14243  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14243

ccactaaccg aactgggacg atanctgtaa ctatatacac gaacctgaca actttccaga 60  
gacgctggga gagtctcttt ctagncnaan cncngngag angagggcca ggtgaatatt 120  
aaaaaaggat tttctcttng aaagatggaa aatcctaatt agtgcgtgac aaaatggcta 180  
cttcccatac cattattatg atatacccca aactccatag tctccttcac actataaatc 240  
tttgagacct taggtgcacc atatagcttt gccacatatt attgtgcatt gatctgatgt 300  
tattttaaatt aaacctgtac tgataaacca caaaggattt gcgatacaga gattaatgat 360  
acattataga aacactggag caatctaacc aaaataatgc tgccatgatat taaccataa 420  
ttgtgaac 428

<210> 14244  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14244

naaggattac cctangatac nctngantga gcaagagcac cggagagagc tcctaagagg 60  
acctgagggg tgtgaacgac tttttcttta taaagagaca caagggcccc caccctggg 120  
gccctcttga attagacctt agagaaacct acccgtagcc aaatctagaa aaacctatct 180  
acatgcctta aaatcttgct aacagtatct gtaaaacaac gaaaagtaga gcaaagatga 240  
atcattggca gacctgctgg atgttaacgc ctctgagcta aaaaaatcaa atagaagtgg 300  
agcacctgtt ctaaaacttt ctttttcttc ttactatgca cttactcatt gagtgtaact 360  
gtagactgtt gaggaaccaa gactatttaa gaacatatac cttgtacgat attacg 416

<210> 14245  
<211> 390



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14245

ccaataccgg ccactccttt cataaccaat taacacaaat gaagtccttc ctctcataacc 60  
agtggttggtg tttaacctca taattaccgc cacgaatcca atttcataag cgaatgatcg 120  
atcccactgc aaaacatcat ctcaggtagc aaacatctag aatgcaagac acacaatttt 180  
agttctcaaa gggacattcc tnttattaat taaataacaa taaatcacat tattatctga 240  
aaagtattta acgcctcaga acaatcaaca tggtcttctt cattcacact agcttcgctcg 300  
ccattttaat cattcatatc aactttntca gacattatac tgtcatacat ccattgatct 360  
tcgtccatct taacaacaca ttcaaaaatt 390

<210> 14246  
<211> 78  
<212> DNA  
<213> Glycine max

<400> 14246  
agtttggttc aaagaggtcc aagaaggata aggcggccga agggactagt tccgctcctg 60  
agtatgacag tccccgct 78

<210> 14247  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14247

ctatanncat ctcccactcc aagtaggcct ccgatcattc tttcctctaa aggggggaaat 60  
gtgatttnat acccatcatt cggttttgtc taagaacacc atcatttctt tcttctccct 120  
ccttcttttt cattatgatc tctattctcc atgtgatcca acctctcatg gagcgcatca 180  
tctcgntggt tcattaacct ctccatattg tgcataaaag ctngcatttg gaattgcgaa 240  
agtccccctc catcattang aattgttctt gccatctcaa acanacaaat caaacgtaac 300  
aagacaatta tagtctgctg tttgaatacc tcaccactc aagtgtatca cacaattatg 360  
gcttttctct aatgaaacac tcttgctttt taccactcta a 401

<210> 14248  
 <211> 77  
 <212> DNA  
 <213> Glycine max

<400> 14248

agcttctatc aaggggagat ggaccatttc aagtgcttga aagattcatt gacaatgcta 60  
 acaaagttga cctgccc 77

<210> 14249  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14249

nttcttctac agttaatttg tattgaacat ctcgataaaa tttaaattgt ctgatnnctt 60  
 ttatagttaa tgtaaccocat gattacagga ttaatctaac ccctcattag gaattttaa 120  
 tagaatccaa ttgaatcatc aaaggaagca ttacaacaac aaacatgtag agaaaaataa 180  
 gaaatatatg tagaaagcct atatatcctt gaaaccaatc tatgttacia atgctaaacc 240  
 tgagcttctt gtagttctat atttgccagg tgtagttttt ggaagcaact angtgctaca 300  
 aaaaataagg aggaccatct acctaaagcat gttnttaact gaatgtgagg catttntggt 360  
 tataactagt gaatactcgt gtttaagatt ctgcagtaag aatagttcat ggggtaaatn 420  
 tgataatgag ctaattgatt atattctg 448

<210> 14250  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14250

acttgttgtg atgttagctt tggtcgtcaa tgctttgacc ttccaccacc atctgcatag 60  
 atttagatta ttattattat atttaaattt taagccttgt atttggctat ggtttatgac 120  
 atttgaatac ttagtatttc ttcatattt acttagtatg actgaacatg atgatttata 180  
 ttacttgctt ttggtgttta tgggttatgtg tggtaaacct tattatttta tgatatatat 240

gtctagtgat atgtacttac atttgggtatt gtgtngatgt atgtcttata attattcatg 300  
 tatgggtttat tntacgcact atga 324

<210> 14251  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14251

tacatttttg actttttaac atgagatgaa atacagagat tggacctcct gtaagttggt 60  
 atcaaggaat acctaaacac ctgggcctga gtggaaccag aaccctgaaa acggggggtg 120  
 aaccaacttt cctgaatctg tcttaataat aaacctcatc tattggaatg ttcacatttt 180  
 gttctccttt tgtctagttg catattctgt gaaaacaagg gataggtaca cattgcttca 240  
 tctttctcat catgcaatca atgaattntg atgcatacac ccctatacat aatcactgca 300  
 tgnntacca ctngaggaca agtgagttgt tatcttttgc tcgaggacan agcaaactgt 360  
 aaaattgggg gagttgtag tcgatgaata cgactaactt ttgtgataaa acatgt 416

<210> 14252  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14252

agcttggtgn ggagtgtcat ttncagnnnc agaatgatct gagtacatat atatatatat 60  
 atgtctacct gcacatacat ctttgaggtn tttttcacat agtttaatgg aatcatatta 120  
 tctctattat tcacaccctt tgtttacact aaactagaaa taggccattt tcaatttctt 180  
 ttggtgatgg acaagcacia gctagtgtca ttacaattaa tgattaagaa attaaaatgc 240  
 aaaattactt aataagaaat ataatatcta ttatatatac tatatgtaat ttgatacctc 300  
 ttattttgta atgttataat aataccaca aagcatgtca tgaaaaatat aaaattataa 360  
 atgtctttag caaggtatct acacacgtac gt 392

<210> 14253  
 <211> 450

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14253

caactttgcg gactganacn gatgacgtac anttagacac taacctgcaa acanataagt 60  
aggtctatga tgcttttctt tgttctagag nactatgtaa tgaaactaac tgtttcttgt 120  
aatctatcat gttgcctgtc ctggtatata ataaattatt tcgggaataa aaaacgtttt 180  
ggtgggtgat atgccagtca ttttcttggg ggtaggtacc cctatcttaa gaatagttgg 240  
gccaccacct aatagaagaa acgtccttcc ttatagcata tgcccaaagt acacttccac 300  
atggaaagtg cacccttgag atgaagtacc cactgtgag taaaanatca cttgggctta 360  
gtcataaatg ttggattgaa gaaagtgaac tngtaccaa aagaaatgca ttagggccaa 420  
tgacttgata gaaacagttt attgtaactt 450

<210> 14254  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14254

ggaagaggag ttganacctt agganactnn tganaacnaa annntggcn aaggagacac 60  
tnnanangag accggaaggc acgcaacttt ggttaantct tttataaaga ctngagcgcg 120  
ccgggggttc tccccctttg acaacatcaa aaagccaaag aactcggaat tcaacacagt 180  
cttaacattg gagtaccagg atataagtat caaagtatta aatccattta gccaaactca 240  
taatcaagga aataatctaa ccagaattca attaccaata aatgtcaaca accccataat 300  
atccatgact tgaacacaag aaaaataagc acagtactta gcataataat gtaaattcta 360  
agaaactaaa agccacaata cacggcttat aagagatata taagcagaag tctaaatcta 420  
agaagacgga ggaggtggtg ggaagatcaa actctgacga atgatccgac attctcttca 480  
agctgtgtaa gacgaatgtc catccggcn 509

<210> 14255  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14255

aagtcacgca caagcactca ttntatatca agcanatcac ttattatcat aactggaatt 60  
 taatgactga aattttaatg actgaaacat agagcaacta aataactaat aactaaattg 120  
 ttcatgattt gtagaaatta aaacaaaacc aaattttaaac atcctgctca tctgtggct 180  
 gatcttcatt taaatccaac actatagcag ctggtgcac ctgaagaatg ggctgctctg 240  
 gctccatggc tgggtgctgat ggcattggtg cctcagaaat aggtgctgga gagatacgaa 300  
 ctggagaatt 310

<210> 14256  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14256

ctacaacctg cttgcagtnt gagaatcgaa tctatcagga agtttcatac catccatttc 60  
 ttctcatcg atatccttga agcactgac tacactttct tccctacca gctctacctt 120  
 gtaaggtccc acctcgttat ttaataaata agacacaaac atgacggtaa aatattcatt 180  
 atttacatat aaactaaatt tgtgaaaccg aatggatagg agactatctt taatgagttt 240  
 accttggtt gtgtcttate aatcaacttg ctctgtccct actacgtttt gaagtgaata 300  
 aggtcaataa agggcgtaat agtctttcat aaaagactaa 340

<210> 14257  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 14257

acagctgcat aaataatagg taatcattat atttccaac caccattca ttgtttgtta 60  
 cctaatttac ttcatgaca acatcgtaaa atatatacaa aaaagaaaga tgtagtatat 120  
 aagtataaat ttgacagagt aataatacat agatatctct ttattttaat ggtatcaata 180  
 cttctcatat 190

<210> 14258  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14258

ttgtcttctt attatgtata aactatttaa aatcgtaagg aataactttt tataagattg 60  
 aactgaaaat aaataaattt tgggtggataa aaatcgtaac aaattgtgaa atcgtaaact 120  
 caatgaacaa agaggggact aaagtaactt ttcgaaaatt gagggactaa taaaaataat 180  
 ntttttgaga actaaaaata cttaccgaaa ttgaaagata aaaatatatt tagccttaat 240  
 catcttataa atcagctgta gatgaagatg tccaccttat atacctaatt tgctatatct 300  
 ctagacatgt gactcaacac a 321

<210> 14259  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14259

ttataagtgc ggggtctggga gacgaaggtc aagtgttctt ttatgcgaag atgatgttcc 60  
 gagtacttgg gattttggtcc gaccatgccc tcttgatttc cagctgggaa attggcgagt 120  
 ggaggaacgc cccggcattt acgcaacaag cataatgtaa acctttacgg ttttaaaagc 180  
 tctatagttg ggcctaggct ntagagtttt cattntgtta aggcntgtg tcttttgttt 240  
 ttgaatttat aatacaagga tctttcttca tctgttcttg gtctctaccc attctcatte 300  
 atttgcatgt ttacttcttt ntctaaaacg gcagattcga tgacgagtcc cccgaaggta 360  
 ctaatacctg ggacccgtct atcaacttcg agcaagaaat gaatcanacg gaagatg 417

<210> 14260  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14260

aaaaaacggg cttagnnttac gtcngganth canctngnna ccgggggatac tcttaaagcc 60

aacctgcagg ctggcaaccc ggggtattaa gggatataggc cagggaaccc tggaattctt 120  
 ttaaccctac acagagagag aggtccccga gggtcgtcca ttcttccacc ccgaaccgag 180  
 agacgcggat tccaaagtag aggcaccata ttgcgcaacg tggtctctct tccgcttcgg 240  
 caccatnttc gttggtttca ggtctttcct aaaagcttca gggattangt tacgggtttc 300  
 ggcgatcctt gtctctttct gggcctgcga cagcgagtgg ttcacgacgc ggaggctctg 360  
 atcggagcan gcagcatgga acacgctctg gccgtcggag aagctgatct tctcgacgga 420  
 gatcacgcag cactcctgcc agctgagctc accgagatcc gcaccacatc ctccn 475

<210> 14261  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14261

aaaaacttta ccttgattgg caagcaatac aaactcaagc ttctgagatt cccacgtgtc 60  
 tttgaaactg atctctgagt tttgatacta ttgtgcctct cacaacaata ttttaataaat 120  
 ttggatttgg tggattagtt aaacccggta ttgcgaccat aaaagtcaca actgcgggaa 180  
 cttcgaagc tattcttagg gaatcttaaa ccttaaatgg cttcctttta ccttgggtctt 240  
 ggagggttcaa cttaaccctt attgggttat gatattataa tttggatatcc aaacctgttg 300  
 gtccctgacc tggattggaa cgggaaggaa gtagaccatc ctaaaaagcc actaggaaac 360  
 ttctggacat tcgcatttct taatcacagc ttcttgctt gtgcttttga gtagaatatg 420  
 gcanatatat atcanggtgc tgttatgaaa tatactacac atttgtgttt tgcgacgtgg 480  
 tcatgtgtat an 492

<210> 14262  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14262

tttggaaacct ttgaattggg ttgggaatta atgggtggggg ggttttggtt cattgacaac 60  
 tgggttgtgg ctatgcttca tgatgtattt tgggccatac ttgatgtaca ttgtatattg 120

gtaaatgttg gacatgctga atgaaatgtt tgttctcaaa tgcttaaaaa caaaaagaaa 180  
 atcgaanaat ataataaaaa ataaaaaatt cgaaaataga acaagaaagc aatacagttg 240  
 agtgaata 248

<210> 14263  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14263

aacggcctcg actangctct tctagaccg tagcacttag agcancancc ncaattntct 60  
 ataaataggg gtgaagtga gtaaatcggg ttcacccctc aggccctctc tctcttcgga 120  
 attggctgga aaaaatggtt cccgggagaa aaatccagcc gtagccctc ccaaaccggt 180  
 tccttaccgt tccggggagg atttcccaa aggttccaac cgtoctcaac gtcctatata 240  
 tccttattct ctgacttac ggtaatccct caccagcctt tcaatcttct tttccctgg 300  
 tggcccatgg gggtcggatt tatctcttcg ttactttata ccctttgact gctaacattt 360  
 attaatcatt ctcttacta aataataatt caccacgttg atgatatcgt actcgtaaat 420  
 gatcg 425

<210> 14264  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <400> 14264

ggaaggagat gacttagaca gcgattcatc cgaccgcgat ccctgagaca cccgcaggca 60  
 gcaaaccggt tttttccggt tatggaatcc caacctagag ccttacacaa ggcaccgaat 120  
 acaccgttga aggacacaat tcctttcaac cttaggggaa gagatccac caaaaggcta 180  
 acctggaacc tacctggatc cagaaagatt atttatgaaa tggagggaag aagggttgga 240  
 cctatatgaa ttcaaaaccc attggccagt ggggtggtctt gtgtctaaaa acgatgttgt 300  
 cgtctgggta tgttcgttgc gtaaaagcct gatatacat caaagtgcag ttaacagtta 360  
 agtttgtatt aattgattaa tctatgggaa cctggataaa aaatgtgtat tgcgttatac 420  
 gtgatgtttt ttctaccagt gcatgaa 447



<210> 14265  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 14265

tttatgaacg acaaacctgc acaacattgg cctatattatt cttcgtttag cctccaataa 60  
 cctctgcatg ttagaataat tagctactta taatgcacaa catttttttca taggttggtta 120  
 tattttacct attgaattaa gtaaagtcct atgcagacct cttttttgtga ttccttcacc 180  
 catgtttcaa tgtgatgggtg acattcatcg cgtctattct ttgcattgtg tatggactaa 240  
 ggctcaagaa atacataccc ggaaccatga cccaacctta tactaaactt atccataaac 300  
 ctatttttaa cattacaaat caaaattggt aatcatacat atcataatga atattaatta 360  
 ttaggtaatg aaaagtaacc ttgaaataca aatcacttac atca 404

<210> 14266  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14266

naaatgatgc tttgattntc ttgcaggcna atcacagacc cggggaaccc nanaaggcga 60  
 accggaagga agcgaagccn gagtcctttt ggaaaggacc aaacctnaat acacggaggg 120  
 cgcggggagc cccgaaacac acaaaacgcg caaattataa agccgcagcg cggagaaaaa 180  
 ggaacggcaa aaactctata cactggaagc ccgggagaga ccttgtaaaa tatccagaac 240  
 gccgcaaant gaaaacggag ctcgaggagaa atcaaagacg aaacctctat cggacgccga 300  
 ttgaacgggt atatatcacg acgaacaaca atgagactag aagcgccgag caaattgaaa 360  
 cgacaacaac cttatacacg gagggtcctt tgaaccccg cgaatattccag acgcgcaaga 420  
 ttgagaaccg aagctctgag aaaattgaga ggcaagaacc gtcgcaacgg aagcccg 477

<210> 14267  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14267

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agacaccann nnnnnaacgg gttagacccc aatcgganna tcngnatnan catnnccatat 60
tnaatacnan nacagatnga ctgggggaccc cgngggttgag aaggatgcga ggattatggt 120
tttctnnngg aanaccnnga acctcagtgg aggggtggcc atcttgggga ttggttgggt 180
ttaatgtggt gatcctgggg gatgtgggag aagttgaactt tgccccatt gccccgacac 240
ggcaacctaa ttcaccacaa tattaattgg ttacccccat aattcctaca aaccttgga 300
ttgaaggaag tgtggcaagg gtggagactt tctaacttta tttcggtgaa cacagaagg 360
gtccctgaag atatgtcgtg ggggtcatga gacccttggg acgtcaggtg ggtgctattg 420
gcccatacc agctttgacc atccccgacc acacacgggc atagtcatc agtgagaccc 480
ttgatgtact aaacagcnag ctctaaccatc aaccgttaaa gacaaatacc acaagcagga 540
gcttgttt 548

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<210> 14268  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14268

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tagggcgccc tactctcctt gcagtataaa tctgacaaac tgaggataag gaagctacac 60
taciaagaat ggatcancat tcaccttcan gaaaccagga tatttacact ggtttttaca 120
atattcataa ttagctacat ataaattatc agaggagag acaaattaac tagtgtaaat 180
cattagtgtt ctttggtatc attcttcata agtatattata gaaatagaaa ataaaataaa 240
aaagattaac atcttctcta aataagatta attaattata tgaacttaat tttatggaag 300
tctctcattt ctctanagct aaatattaaa ttaatttaat tatgaaagna cttaataatt 360
cacttacttt ctattt 376

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<210> 14269  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14269

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 acaccctaag agtgggtggct cggngaagtt ctgggttgaa ggaaaagaac cgnnnccggg 120  
 gtatgaacta tattccaatg ggaacccttc acaatggcta tttggtaatt ataattttac 180  
 cctttttttg gcatgaatgg ttgaatatgg ttactcttct attcatggtc tctgaagaat 240  
 taaccattga atacctcaag cgagaaccag gggctattct ggataccaag ggtagaaatc 300  
 gcaattgatt gtgctagagg tctttgggtc ttacatacct accaaggagg atgcattggg 360  
 caccgtgata tcagggcaat ctttattaat tgaacatgac atgttccaaa attattatct 420  
 gggttactaa atctctagat atggatcaat gcttctatat ctaaaactta nggaatccct 480  
 atcaattggg tgacaatatn 500

<210> 14270  
 <211> 103  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14270

agctttgttt atttgggtctt cgccagtgaaggatcgatg tgggtccgaa nagaggcaaa 60  
 tttgatcatc ctactaagac aactggaaaa actggggcca atg 103

<210> 14271  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14271

gaaagagatg gaccaacagc ttttcgtccg cggaatacac acccatcttt cggcaataca 60  
 tctggagatg cccttttgga catgtcgtcc ctttgtactt atcaaagtct ggtactttga 120  
 acttgggagg gatgacgatg ttgggcacga gacataaatc cgctaaatcc gagaatgggt 180  
 aattgccaaag gccctcgact gctcttaacc tctcttcaag cgcctcaatc tttcccttat 240  
 cttccgcgaa gggaacagat tcttttacgg gtgtgggtga agccgggata tggcggacta 300  
 tgctcggttg gggtagttca tggngggacn gatctatgag gtggagcatg gggccaagat 360  
 gggatatctcc ttcctcatcg tc 382

<210> 14272  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14272

agcttggttc tgtgtttcag aggaaannga cgcnggcaac gtatcaagag caatgctggc 60  
 acgactactg attcaactga tcatggtaga gagctagaaa tagttcatat gacactaaac 120  
 gaaaagttgg ctgatacaaa atttctcctc gtttaggatg acgtgtggga acgaaaggcg 180  
 gccttaatgg agaactgtgc tgaatgctcc ttgttatgga gctcagggaa gtacgatcct 240  
 tgccacgaca cgcagtgaag aagtggcttc tatcatgcgg gcaga 285

<210> 14273  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14273

ctacaataaa aaggaaatga ctgagagatg tttntattg gattgtaaac catgaaagca 60  
 ctcaacatga ccttgcaaaa cacaatgatt acggaacaat ggctctagat accatnttcg 120  
 ataaactgag agagaatatg atgagaaaaa gacgaagaaa aaaaatctaa tattattgat 180  
 atgaaaagtt agttggagtt agttataact gaggtattta tagacctcta catagttgaa 240  
 ctaaccataa ctgattctaa ctaatcccaa ctgacttcta actaactaat cctattgaga 300  
 tgcaaataga aaagttctta cactccctaa attactaact aacactagat gggatttggt 360  
 agcaaaagct aacaaccctt acaatatgta tctatcactc aatgggtgat gttagcaaaa 420  
 gctaacaagc cttacaatta atata 445

<210> 14274  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14274

ccaccaaccc cacacaacca cacgatccaa aaacaacaag caacaactan naaannaana 60  
 gggaccctca acaccataaa annnngtggt nttgataaaa aaaaaaattt tttaaangaa 120  
 gaaaggggga gaaaaaaaaa aagaaaaaaaa aaaaagaang ggaaaaaaaaag aaaagaagag 180  
 agagaaaagg aagaaaaaaaa aaaaggaaaag aaaaaagaaa aagaaaagaa gaaaaaagaa 240  
 gaaaaggaaa gaaaaaagaa aaaagagaaa aaagaaaaaa aaagaaagaa gaaaaaaaag 300  
 gaagaaaaaa aaaagaaaaa aaaaaagaaa aaagaaaaa 338

<210> 14275  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14275

cgacgaatct ggcagtactg ancacnnatt tatcannacn nccgnnggaa gaggaggagg 60  
 gagtttaatt cntnnnaanc annnacgggg cggggggtca aatacacaac ccacccccca 120  
 aaaaaacata atttcacccc gtcacctcgc cgagtatcga gctaactaca taacgggaat 180  
 accgaagagg cacaaggtaa ggagaaaaac aactcaacta taggaatgta acgccagaac 240  
 acagactagg tggacgtaca caaagataaa ctccacagtc attgactgat taccaagtag 300  
 tgatgggcca acacaagcaa caaactagat gtaaagagca cgtgacgtcc gagccagcac 360  
 aaggataacg cgcaaatgca tttc 384

<210> 14276  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14276

agcttnagtc ntttttatct gcacaaggct cttaaagggt gaagactatc cttgtggaac 60  
 cttcacccga cgaagacact gacaaaaact tatcttctcc ttcttggaac aagtatggca 120  
 ggctgggggc aagtaaatTT tcttcccatc agaccttgga tgcaactgtg atcgtatacc 180  
 catatcagct agatcttgaa gggatttcaa gccatccttc gtcttgctt gaatgttaag 240  
 gagcgttcca atgacactat cacagacatn tttttccaca tgcataacat caatacaatg 300

tctaacgtca agatcacacc agtactgaag atcaaagaan atggacctct tcttccatat 360  
gcaactttga cttttatcct tcttttgagt cttccaatac agtat 405

<210> 14277  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14277

gacaccaaag gataatgtat ggcttcactt gtnnnnnctt tncattnnng ggctcaaaca 60  
tcatcacagc tcttcaactc ttcaccaaga cctcaatatt atttcatttt cccccctaat 120  
tctatgctnt caactctgtt caccgatttc aaatattctg agataagaca aattaccatc 180  
atatttagat attagcaacc agagtttcat tcaagataaa aagtacatta acacaaaaac 240  
tttcaattgc aagtcacact gcaagattaa atagaaggcc aggcttttga acatagatac 300  
ccttcanata aattcaggca gaaacgatgg ttgaatattc aacaaatcac attcttgcaa 360  
tctatagttc atttgaagca tatntaaaac ctcaaatacc tgtatgaaga aattcttctt 420  
ttgcattt 428

<210> 14278  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14278

ggtttgtctt ctntgttgaa cttanagagg taatttcata gttacttttg ctttctctct 60  
atcaaattct gagttataat tttcattttg cattttatta tttggcacag aaatcgttta 120  
gagatttgga agaacttgaa tatgaagatg ggggttatag gccatcccct agtcccgag 180  
agaggcgtgc cagaagacag ctaacaaaaa taacaaaaat gaatgacttc attcaatcat 240  
ctatgctntt cccaaagggtg tgggtgtggtg gaattgcttc cacaggacac gttttctatc 300  
ttctttnttt aattttaaaa agtttcaa at gagatatact ngcttatcta gttcggttgg 360  
cttcatttct ttctgttcg taattattcg tattatt 397

<210> 14279

<211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14279

actcaagcct aatgttntat tgatgatcat caacatattc aaagttttgt atacattggc 60  
 aagaagtggg gctccattgt tcactatgaa gttgataatt ggctctatat atggctctac 120  
 atcgctatta aaaacggatg tactgtgtgg gtaggcgggt gcagcaatga aagcagagta 180  
 tattgctgtt gacaccttga gtcggccatg caaattgggt aatgaaattg ctntttgaat 240  
 gttggtcata gcaggtagaa tgtattggac cgacctcatt ggtattgggg ccaatttcgt 300  
 ttccaacaac gatgtactta aaattgacgt ctcgtagta ggggtgtcacg tacttattga 360  
 cccagtctct ggctgcatta gcgttngtca gagattgaag ggtatcctta gcaacgtcca 420  
 tgatcaactc aatgcctgaa cctc 444

<210> 14280  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14280

ggttttttgc tngttgcctt aaatagcttc aagcggatg tatcatgaaa tatagtctaa 60  
 ttttatcatt atgtccatat tcgtggtgaa aagctgctcc tttttgttgt ataataaaaa 120  
 tactacaaat tacgcaagat gaatttgtat tataagataa tcaccgtaat tgtaattaa 180  
 tatctcattc tttatatatta gtctctatta ttataacaac tatccaatta tatataaaca 240  
 tgtatgtatc gtgtgggggt ga 262

<210> 14281  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14281

acgcatgctn gacagagaag tattaggggc agagacattg tcctttagt tgtaacggat 60  
 tggcatacca gttaaagtct ccaagatatt gtcctcttct gaaccatctc taggagactc 120

gggcaacctt tgctttcttc tgtggtatct aactccccc aagaccagac cacaaatgac 180  
aagcaagggtt attatgacaa tgaccacaac aactatgggtg tgcttattgc cacctccact 240  
gccccataa cccgtgccag cacctccaac cgtcgagacc ttgatgtaga gacataacca 300  
gaatcacaat caggtttctg aaagcatcct acactgttca aaaggaaaca gtcccctgaa 360  
c 361

<210> 14282  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14282

tctgcttgat ggtaaactag atgcttagtt aacctggtaa ccagctagc gttgaatcag 60  
aaatctatac ctgtcgcaaa agtctatggt ttatgctcct ctgncgacca ccacacagat 120  
cttttcctt ccatgcagca acctgaagca attgagcagc ttgaagctta tgctgcaaac 180  
atttacaaca gacctcctca acctcagcag caaaatcaac cacagcagaa caattatgac 240  
ctctccagca acagatacaa tcccggatgg aggaatcacc ctaatctcag atgggtctagc 300  
cctcaacaac aacaacagca gcctgctcct ttctttcaaa atga 344

<210> 14283  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14283

tactaagctt ctttggactt gacaggcaac taactcctct ttantatcat gctatgtgct 60  
cgcgactggc ccttttcttc ctttcgcact tgagttcact atggctaccc catagagctc 120  
cgcgaaattt ggtcccgcca tactcttctt tgcgagccct cttgggtctct cgttcaaggc 180  
tcttgcggtg attgcattct cttcccgtaa cccggcacac tccttccgaa cgtgtgtagc 240  
agccaacttg aacttctcct tggcgagttt tgcctttcct aactcgcttt tgagagcttg 300  
gacttcctcg tcctcttccg gtgcttcaaa attcccttcg ctgacgactt ttaacttggc 360  
gagccaatct aaacctcgta tg 382



<210> 14284  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14284

ctcgggaata tccgggagat gtgtggacct ttatgganaa gtatggaagg atatggaagg 60  
 aagtagaaga gtgtaaagac tcctagatgt gtgagcatct agagaataat cttcacccaa 120  
 gatacagtaa tctccacatt cattgggagg ggagtgtata atagctaagt agagcctctt 180  
 cctattatca gacagagtaa tcatttttaa gtgaaaagct aaagtaagag cttttgaaga 240  
 aaataatact gaaaatttat tctagctgat gaccccgaga tgatcattat aacc 294

<210> 14285  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14285

aaaaaaggga gtggcttgat tngcggngna tatncanach caagctatgg agggcattac 60  
 cttatggatc taaatttgag gggntntattg accataagtc cctaaaanat nggntggacc 120  
 aaaaaaacct aacattgagg caaagaaatt ggtaaaagtc cctaagggat accaatttga 180  
 gcctaactat tattccaggt aagcccatgg aataactgga cccctaagta aaaaattcct 240  
 ttcaatgggtt ggtttgatgg gtagagaagt ggaccctcta aaacaagtta aaaaccatta 300  
 atttggcatg gtgagatcac tttagtaaca ataaagtggg taatgtgaga agtcacaacg 360  
 aacttttgag cgagatctgg aggtcagaag ttgaccattc ttgcagcctg tagagtcata 420  
 tcgcaggaga gagagagttt agaggggact gatgagtctg aggttcagga anggttgcn 480

<210> 14286  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 14286

tgacaggaaa cccctcatgc taattactga gtatctaaga ggggtatgca aataaaacat 60

aattccttca gatgtccacc tagttttggt ttaacaaact atgctttaaa tgaatcctgt 120  
tcattatata tgggtgaact catcatacct aaagaaaagg ccgctagtct gaactgctat 180  
cactttccat gatattgcac gatgggtgctt acatattatt ttcttattta tctctaaagg 240  
aatatttgaa tgaagaaaat cattgaggag aagagaaaat atctactatg acattagcca 300  
taaa 304

<210> 14287  
<211> 515  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14287

naaaatcatg gactacngna ttagnattna cgtgacacta taaagcantg ngccgntgac 60  
atcancacgg ntagctagta tcatgcacat aatttagaat tttcntcgct anaacgaggg 120  
gngncggaga tngcgcgcct naagcgcacc atcnnctcac ttaagggccc aatgggctg 180  
ttaagcatgt ctttgtgttg tgccctaatt ccaaaatctt ccctttattt catatttttn 240  
tctattttct gcatcttttt gacatttaat ccttcatttg catatctgca ggcataaata 300  
agaaaaacat caattcttaa aattaaacat atataaatgc taaataaata cttttaaggg 360  
tatttttcatt ataaaaaata cctcatgttt accagttatc tttcaaccat ttctattgct 420  
aaaatcaaat ccaatgcgcc agaccaaca tatctatgtt aaatttcatg ttatcacccc 480  
aacaaaatga ttttaacaac actgaatcta atacg 515

<210> 14288  
<211> 232  
<212> DNA  
<213> Glycine max  
<400> 14288

accactacc ctagaatcaa aataactcat tgccattaaa ctagggaatt aaaaaaact 60  
taatggctga gtgtaactga aattgtggca accaaaagtc aacccacag ccaacaagtc 120  
accaccatt gggctctcaa aaggctgatg cctacgttgc aattgtgccc ttattacaag 180  
ttgaactaga cctaactaaa gcccttttag ttgattaacc caaacataa tt 232

<210> 14289  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14289

taacggaagc tctcgagata tccaangggg cttcatnttt tctcatcgta agtccgatcc 60  
 agaccgctta tattcccgag ccgctcaaaa ttgaaccacc gaagcctctg aaaaacctca 120  
 atgggcatta tttgtaacac cggagtccca ttcagggcgc ttatatattg agaagctcga 180  
 attgaaccac cggagccttc gagaatttca atgggcataa gtttgaaact gaggtccatt 240  
 cagcgcatat atatcgaaag catgaattga acacggaact ctgagaaatc aatgtcatat 300  
 ttgtccacga gtcgatcata tgctattacg aacctcgaat gacacggagc ttcgaaatca 360  
 atgtctactt caat 374

<210> 14290  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14290

gtagggttac aggactttcc attagtccta taaattggcc atatactcag ccggtattag 60  
 gcctcatgag cttttctcata ttaagcacct tacaggattt accttgggtg actttccttt 120  
 aaataacttg gtgttcaact tttatcatct aaattaaatg tatgtcatta tgctcccttg 180  
 ctttccaaga aaactggcct gattcangga tggagcaaga agtctttatc ttatgcangc 240  
 aagttagagt tgatcaaagc ag 262

<210> 14291  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14291

gaaacttaac tacttgctga aaaaaaaaaa cttctagaat ttaaccctat ctttttattt 60  
 taacaataga caattgcaaa aaaaaaatca agatttgaat tgactaaact ctataaactg 120

ggctgattaa ttatgagtta aacagtctta attatttaatt aataaatatt aataacattt 180  
 aaattgtaca gcataattta tactattcac agagggtattg gagggagaca gagagaaggg 240  
 aaccaacctg gtcttttggg aaagtagggc aacaacacca aagatganaa acataagaag 300  
 cattccagag tgctcaaagt cattcatgtg agcggngtta aggactccac caacaaaaat 360  
 cttgaggtgt ggtgaatata aaagctcgat g 391

<210> 14292  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14292

tttttgtctt tcttattcat tcaatatcga gcgttgcgat atattatgga ctgaatcana 60  
 caaccgagta aaaagttatt gtagtttgaa gttgctcaga gcttcaactt tcaatatcga 120  
 gcgtttcgat atgttacggg actgaatcag acatcanaat aaaaagttat tgtcgtttga 180  
 attatctcag agcttcagta ttcccattcg agcgtctcga tatattacgg gactcaatca 240  
 gacatccgag taaaaagtta ttgtcgtttg aatttgctcc aagcttcaac at 292

<210> 14293  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14293

ttgagtcctt aaacaacaat aactgtttac tcgtttgttt gattgacacc tgtaatatat 60  
 ccagacgctc gaaattgaat accgaagctc tgagcaaatt caaacgacaa taagtttcta 120  
 ctcgtatgtt cgattgactc tcgtaatatata tcgaaacgct cgaaattgaa gaccgaagtt 180  
 ctgagcaaat tcaaacgact ataacttttt actcggatgt ctgattgagt cccgtagtat 240  
 atcgagacgc tccgacttga atgccgaagc tctgcgcaaa ttcanaacgac aataactttt 300  
 ttctcggat gtctgattga gtcccgaat atatcgagac gctcggactt gaatccttag 360  
 ctctgagcac atcaaatgac ataactntta ctcgatgtca agtgagcccg aata 414

<210> 14294  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14294

atcttcttat ggaagcttct caaggagggt agcttagtta tgagaggggt gtgtgtagct 60  
 aagctctagc ttctcaagga agttttctca aagaacctct caggggaagtt tctcaagaat 120  
 cttctcaaga agttacctag tctataatag agcatgtgaa cactgttgaa cnttgatgat 180  
 gagagcttgt aaacatactt caagttcact ttctcctctt tctccttcat ttcggtctcc 240  
 ccattctctt tcttctctt tcttttctca ttgaacatct tccagcttct atccaggctg 300  
 atcttggtgt gaagctcttc ttcattggcta tccctaggga tgggcctct 349

<210> 14295  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14295

tgacaatnng ggaagacaga tacactattg ttttatgggt tcattgatag caattcagca 60  
 ggcactaagt gggtgcagac cctccactnt agttagttac aacattccac tagttagtta 120  
 tacaacatca ttctgttata accatttcca attctgttag aacaattagt ataagtatat 180  
 caagcagtggt aatgaataaa ggaatgagaa caattacctc aattagctnt ccttagttcc 240  
 ttagctgtag cagtagaata gagtagttat tcgtatcaga cattaacaag tgcaaattag 300  
 atatggaggc tngtagacaa cttgaagatc ctctcagttg ctcaatatat ggaattaaat 360  
 aaccacttaa actctttgct tcatcaagaa gagcactntt ggaagcaaag ggcgaaaatc 420  
 tattggttga gtgat 435

<210> 14296  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14296

agctttgttt gcacttttca atggagnnga caggaagatc ttcgaactga tcaacacttg 60  
cacagtggcc aaagaagatt ggaagatcct gaaaatcact catgaa 106

<210> 14297  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14297

gcttaacatt caattntgag cgtctcgata tatgactaga ctttatctta catccgagta 60  
aaaagttatt ttcgttgtaa ttggctcaga ggttcaacat tcaatttcga gcgtctcgct 120  
atattacggg actcaatcta acatccgagt aaaaagttat tgtcgtttga attggctcag 180  
ggcttcaaca ttcaatttga gcgtctcgat atatgacgag actcaatcag acatccgcgt 240  
aanaagttat tgtcgtttga attgtctcaa aggttaaaca ttcaatttcg agcgtctcga 300  
tatgttacgg gactcaatca gacatccgag taaaaagcta ttgtcgtttg aatttgctca 360  
gagattcaac attcaatttc gaacgtctcg atatattatg ggactcaatc 410

<210> 14298  
<211> 271  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14298

agtttagttt ttttncattc ncgtcggcag gagaagccta gatgtggctc tattcattca 60  
caggtaacag tctaaagaca tgggaggaag ttgttgagaa atttatgaat aaatacttcc 120  
ccgagtcaaa gctgcagaaa ggaaagctgc tattttatca tttcaccaac ttctgatga 180  
gtccttgagt gaagcattgg atatgtttcc gggtttgtaa gacagactcc cacacatgga 240  
ttctctgaac caattcagtt gaacatgttt a 271

<210> 14299  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14299

gactaaacgg agtagtttaa gccatgtttg tntattagtc gtttangcta tgttataaag 60  
tgaagcaaga catanataat gaggtgaaat taatatgagc cttgcaaagt caacaaggcc 120  
atggttagtcc aatgacaaga gctngngcta tgagaagtaa agggactatg gcaaacatag 180  
ttgctaaaat tcgtacaaca gtcattgtag caatgggaca gcatgggtct actagattga 240  
agctttgaaa gactaacgga gtagtttatg ccatgttttt tttttataag tcgttttaggc 300  
tatgttataa agtgaagcaa gacataaata atgcggtgaa attaatatga gccttgcaaa 360  
gtcaacaagg cctaatttgg gctgctagta gtttaagaat actt 404

<210> 14300  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14300

agaggacaga aaagagaaag aaagacagaa ggaaaaaaaa aaaacaaaca acnaaaaaaa 60  
aaaagaaaga gaagtagctc tgagacatcg annacaaaaa nnnaagnagg gaaannagaa 120  
gaaagaaaga agaaggtggt atagtttagg gaannnnaag gggagaagaa gganagaagn 180  
natgaataaa gaaaaaagga gaaaaaagag agggaaaaga gagaagggaa agggaaaaaa 240  
gaggggaagtg gaggtaagaa aaaggaagga aaaaaaatg tgaaaaagat aaaaagagaa 300  
taagggaaatg aagtgaggaa aatggaggag taggaaagaa agatgagngg aaagaaaatg 360  
gaagggggaa ggtaagggga aaaaaggag aaaaggagg aagaagagga gaaaaaaaaa 420  
aagaaaaagg gaggaagaga g 441

<210> 14301  
<211> 340  
<212> DNA  
<213> Glycine max  
<400> 14301

ctcgactcaa agaaagtcatt attagtctca tacaattaat atagaacctata tctctattg 60  
tcacatctta tcagagcgtg gtgttcccggt gtcctctagc atgaggttct tcatagtcatt 120  
tcacctatctt atctgctcac ccgaacataa gttcaagatc atcacaggat ccatacaaaa 180

caacacacag ggagtgagtt atcacattcc tagctgatag agaaacaaga caattgaata 240  
 tacatattat ataaatgaga taccacttgc tttaacatag ctcacgtaac ttcaacactt 300  
 cgtcattcac aattcactcg tcaattatca atcacattac 340

<210> 14302  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14302

tgtttgcttt ctncctttatt aatatnaact atcttccatt tttgagtatt tgggaccata 60  
 taatctagaa cgtaacttct catcatctca ttcaacctct taggctctta gctatggaca 120  
 tgatagtttg tcctaatttt tacttcaaca tgctcgtttg gacgtggtgg tcattttgtg 180  
 acaacagtgc aagtaggaga tgctgattct ttccctttct gcttcaagtg ttgggtgttg 240  
 gcggttgagg actcgtgctt gtgcgtctcc ccaattttat cggaagctnt ctgatcaact 300  
 cgaaccgatg atcaggatag attcaaattt tgtgtgaatt ttccccacaa tgg 353

<210> 14303  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14303

agcagttgca gaagtcaatg tatgtgctaa tgactattat cattnatatc ttacctattt 60  
 tgaattatgg ccttgggttg tgtgtctaga ttggcaccag actcctacat acacaatatc 120  
 tttcattgca agcttagcag tagtcccaaa acccaatggt tatgcgcaac caagtgtcat 180  
 gattttctata ttaccaattn tgctagtgtg taatgttgaa tcatagtttt ggtctctcat 240  
 ttagcattca tctcatattg taaacttatt ccgtgtcgtc cagatttana acaaacttct 300  
 cttactttat ttcanaatca ttcttttggt taccttacia ctcactcaac tctatcatta 360  
 ccctttttca atatgcagaa ttaccaacat gcaaacaaat ct 402

<210> 14304  
 <211> 179  
 <212> DNA



<213> Glycine max

<400> 14304

ttgtctcctt gttatgtaat aatgcctttc caggattgac ctttaccatt aaaacaattg 60  
gcggcaattg gaatcctaag gttaattttg ttgtgatgaa gggttcacca ctaatgaacc 120  
ctactgctag tctgttggct aagcaaaatc acccccatcc aattgttagc tcaaggtga 179

<210> 14305

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14305

tcatggttca gtgtcatggt gatcatgaca ataaagtata tttggatttg accatgaact 60  
agttttaagt ttacttggtg atatagtttt ttgtataaa attatctttc aattntgaat 120  
agcatagtaa cacctatttt agaacaccaa aacanaattt taagaggcta ctatcgtgta 180  
agtacaaaat tttccctggt ctgtaaactc aaggtaaaaa cacctgcttt catacaaaaa 240  
acgaccaaag aatatggcat aactagtttt aagtttactt ggtaatatag tttttttgta 300  
taaaattatc tttcaatttt gaatagcata gtaacaccta ttttagaaca ccaaaacaaa 360  
attttagaag gctactatcg tgtagtacia aattttccct gttctgtaaa ctcaaggtaa 420  
aaacacctgc tttca 435

<210> 14306

<211> 237

<212> DNA

<213> Glycine max

<400> 14306

tttgtcttat cttgattagt gacaaaaaca cagtggctaa tataggcttt tttgaacaca 60  
ctccttttat attataatat attagaaaga ataaaattag tcaataaaat cagtaaataa 120  
gatatgcgac ccacaaattt tgatgatttt tctttataaa tttcaaccaa taaaagaata 180  
tgtggtaaca ttttctatgc aagctgtatc attttctctg tatcaaggga acttaca 237

<210> 14307

<211> 439

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14307

actaccctga gaaccacaag gagtcatgca tgctacttga atatctggag ggacaaagng 60  
cagcatccag aattagtttt gagaaccatc aatttaagac catccttggt caagacaaca 120  
cattcaacca ctttcatgat cagaattttt atagctcttt atacaataaa acatgagaac 180  
atagcaacca tgaacatgct gagaatcatg aaaatacatt cctctttctc tgttgcaaac 240  
cgaaacctta atccgtaaaa atgaaggaac atatacatte catatgcgca gtgatctcaa 300  
tagatagtca aatactcaca aagattcata tgtagtcata aacaaattat ataacttgta 360  
attctcatta taattgaaca actgccatag aagtttgat ataataataa atacgacagc 420  
attatagtca tgttatatt 439

<210> 14308  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14308

ttcaacctct cttcaatatc cttaacccca ccaaaacaaa ccgtgggggg cagtgttcta 60  
tttctgattg gcttgcccct ttttccgcac atcctgcaaa aatanaacat aatctttcaa 120  
attggtagaa tgaattataa caatttaatg ttttttgaaa aacaacttaa atggcaaggt 180  
acataccttc caaaaagggt ctttgcgagt ctggcaaaac tgggcccatt tttccttgct 240  
tatgtcgtat ntctcacgga cagtgtcggt cacaccgtcc tgatcggtcg caagggccta 300  
tntccttggt aggtctgatn taaactgcct ccctctcttg ccgacagtct gaagtaactt 360  
gttttttgct ctactatcag aagcctctgg gatttcaaaa tccgcttgac aataacaaat 420

<210> 14309  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14309

agagatgatg gccttganac cncccnatag taacatcctg acgaannngn gatngnggat 60  
 ttggccggag atgtggatgt tatataagtc ctaccggatt ggaatttttg atgggtgatt 120  
 ggtgtnttta ccatggagtn ctaaagaagc aaagacattt gtgacacttt ttactttgtg 180  
 aagccgagta tgtagctgca acttcttgca catgtcatgc catttggtt agaagattgt 240  
 ggaagaactt cagttgttgc aaaaggaaag cacaaagatc tatattgata atagatctgc 300  
 acaagagctt gccaagaatc cgggtgttcca tgaacgaagt aagtatatag atacaaggta 360  
 gcatttcatt agagagtgc ttaccaaaaa aagaagtaga atngactcat gtgaaaactc 420  
 aagatcaagt tgcggatatt ntcaccaagc ctctcaaattn ttgaagattn tcgaagattg 480  
 gcgagcagac ttggtgg 497

<210> 14310  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 14310

atctgcaatg caatatgtct cctgtcagac actctgagtg tactctcaca agaacatcat 60  
 gtccgtctcc aatgtcaccc tgtcaaataa aaaatgtcag aaccactcaa tggtttgaag 120  
 ttgacaattg aaccaatcaa tcgaagtaag atagcttcaa gacaattgga aaagctcgcc 180  
 aaagcccacg tatgcatcac attgtcaggt ctactcacta tctactaatg 230

<210> 14311  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 14311

aaacaccgcc actttccata tgcttgtcag tgtttacgtg gccaaataaa aggggtgtgtg 60  
 aaacatcatg atccctacaa attgatctac ctacacataa ctaaaagacg actctgacat 120  
 ttcggaatc tcaaagcttg aaatcttatg atttcattct gaggtttat accactttat 180  
 tagtatctta tattggaaaa aagccaacgt acctttc 217

<210> 14312  
 <211> 331  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14312

cacccgnggt gagacaacat acactgtgac tatgaaccta cacacaaaca ttcattttct 60  
ttatgtaaaa aactctatat aaatgtctat ataactccgc aaaataactt gattatctta 120  
agaaaaatga ctaaaggcta agattgtata ttcgtatgta agacaattaa cagcccgta 180  
ttgtgcacac aaataacaaa tgtgtntgat tcatataaag gctaatacaa ttgtatattc 240  
atatgtaaga agattaaaac ctagccattg tacaacaaa cagcgactc atttgattta 300  
tgtagagtca acaatggctc tgtaagaca a 331

<210> 14313

<211> 254

<212> DNA

<213> Glycine max

<400> 14313

ctactgatca ccagaatgaa cttggtttat tgtttctcct gcttggcctc agatgctact 60  
aatcaatgc tgattgtatc atcacacctc tagactgcat ttctagttaa ttctcattaa 120  
gcttcagcca taacttacag ccgcatacac acaattatct tttccatgtg acaacaacta 180  
cactctgttt ttgaccaca gatgggagtc caattgaaaa ctaccagagt gcttttctat 240  
ctcttatacc accc 254

<210> 14314

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14314

ggcacaaata ccatatttct atactctaaa cctctaattc aggttccgag tgtttgacaa 60  
aagagtctct gacataatct taaaactaat gatataaaaa aattaatatt tcttgtggaa 120  
ctaaatttgc tagaaaattc acatgaaact ttatcctaatt tttcctacca cattattata 180  
atattaataa attttaccta ccaatacatg tccacaagaa aatcgtaggt atttcctgca 240  
aattatatat ccaataacat ccgcacgtat ttcctatgga tcttcttcan ataaaaatct 300

gcacgaatat cttgtggatt atttntcaca gataaattcg ccagaaatta tcac 354

<210> 14315  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14315

ttttcacttg tgtacttgat ggagttggag ttattttcga tgatctcatt ctttccttta 60  
gtcccaattt tgaacaatct ctagtgccat gtgttanggt gtaatcaaca ttatataatg 120  
tcttactata gatgaacata agagaaaagc atgagccaat agcaaacctg aaaggaactc 180  
ttcttatcta ctggactatc atatgacttc atatgaagcg tgatggagtc aaaataaaga 240  
attaaggctg attctgcaag aaccatgagt ccacatatcc caagtagtgc agcaacacaa 300  
attgacctaa gtaaaccattg attttccacc accgttcgat cctgtcaaca gaaataatga 360  
ttatatatca acatcattac gcataacacc ttatgctatg tg 402

<210> 14316  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14316

aatcctcatc ctgcgaaatc ttgaatncgc aggcactgtc tcaccctcct ccaaaactat 60  
tgatgactct aagaacgcgt acaagctgtc agcatcaatc ttaattgaat gtactcttac 120  
cctcacttgc ttagggctct ggtcttacga gctgtataag aaagcataaa actccttcac 180  
catagctaca tctatgcttg catcttggag attggcgaga cgtttgtgta agttacgcct 240  
ttacaactct gccttanact cgtcacattc ggtatgatga atcttaacat tcctttacag 300  
aatgatcctc cg 312

<210> 14317  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14317

nggctcaaca atacgaacgt cnacatccna aannnagccn gagcccaaat ccacctcaca 60  
 taaacataga cccggggttag tattttttcc ttaccctcgg aagcaaaaaa caagagacgg 120  
 aaaatttcct ttccaacaaa aagactgaga aggaaatttc cctatccaaa tgaaataaga 180  
 tagagagaat gaaaattttc actcactgga aaaaagagag gaaaggatat tccaatcta 240  
 atagtgggag atagcgaana caagagaaag gaaattccca tccaacgaat ggtagaaatg 300  
 aagacaatga acgagagata gtcctgggtc aaggatcaca ctaaaacaga acatatgtgc 360  
 agaaagggtct ttggaccgga caatatctga acaatacaga cttgtcacta aatgaacgaa 420  
 aagaatgaaa ggaaaccatg acctacagtg gtcttcttcc tttaattgcc aaccaaactc 480  
 tgtgtgctac g 491

<210> 14318  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14318

agcttatttc atatttcctt acgaacgttc acttgcgcaa gacatcctat taactaatac 60  
 aaatgcaccc atatacaatc aaggtagctt cattacctag attatttaca tgtacttcca 120  
 aggtgtatat gttatttaca tcacacacgc ctcttggt aaatttacat acatgcatac 180  
 tcaaagcatt tcgggggtacc aaaaattgca catgcgctca tcttggtatt tctaatacct 240  
 atacatatac aaacttcatg atgaatcttg actacctag caataagggtg ctacatttca 300  
 tgctgttttt tttcaagttt ttgctaccta aagccacatg caaattcaag catattttcc 360  
 tttgctgact aaaantgtat tcaaagtaga aggtacatat cctttttgta atatgt 416

<210> 14319  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14319

cgccgctacg tgcttgagat ttcgaaanact tagtanaatn tcgngncccc ngagangagg 60  
 cnaaagagca tatgttcccg ttgtttatca tctccccac aatcttaaga ggggtgggtg 120

ggtgaataca tacactccta actatcccta cacataaaca tctatctcac tttttattca 180  
 acgttataac tccctcaata atgaactctt tccctattga ttttaataga acaattcgag 240  
 tacgaatctt gtgccataat gaacacccga gaatcttgca agataacaga ccagctcaaa 300  
 ttcttactcg aactgccgca ccctctgacc tacctccagt tctccatcac accgcttggtg 360  
 aatcccatca tcttgccctt ccctctacaa agtctgcaca cgctgggata ctccctcacct 420  
 taggtgtgaa ttctttctca cctatgaccc cgtctcttta tcccatgcga actaagcaat 480  
 at 482

<210> 14320  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14320

gtggccagtg cagatgacat accaaactgc aattttgcac atgaatcata gataagatta 60  
 aaaaatcaaa aataaatgtc acatggcaaa atagccatga taacaataat aattgttcgt 120  
 tcttctatag actaaaacac cagattcccc acatatgaga aaatctatga aacaccaata 180  
 cttcaatttg ctttgccctat ccgtattcga ttgttttacg atactaatac tcttaattgg 240  
 atactntacg tatatataga tattgttgaa gtattactac taaaaaatg atatttagta 300  
 atattttttt atcaacacta aataaaaatg ttactaaaag cttttgacga catttaattt 360  
 ttttacaaaa tgatgaataa atgttattaa tata 394

<210> 14321  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14321

tcnggttgct cattgactcc agattgctgc anagaaggac atatatttgt atggtgatct 60  
 gcagaagaac atagaccata gctcttgcaa caagtatata tttctgattc atggcaagct 120  
 gaggtaactan gttgaccaag gcatcaagtt ttcttcaag ctttttattt tcagtagatg 180  
 aagatgaatt catggccacc tcatggactc ctctaagaac aatggcatca tttcttgca 240

tgaattgttg ggagttggaa gccatcttct caatcaaact cctagcccca gcatgggtca 300  
 tatcaccaag agctccacca ctggcagcat caatcatact cctctccatg tngctaagtc 360  
 cctcatagaa atattg 376

<210> 14322  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14322

agcttatgtt tcctattttg caatgttatc tcccagatth gagtagcatc tctactatga 60  
 taccagttat gaaaacaatg cacgaattct aaaatgcaac acttagcaga aggggtcaatt 120  
 tgtaaagttc atatagcaat tcaattctaa tccatatata acgtatthta tatatatthca 180  
 tattcccca gagtctactt ttcaaataata atthttatthtt catcaaactg tatgtgaatc 240  
 aaacaaagta aaaaactatg tgaagtatgt caaagttgaa atthtgtaaaa cagcatgtgt 300  
 gcacaaactt tcaacaccaa ataatttaga aatgactcta agagcccata ctcatggagg 360  
 ataacctncc anaccaaact tgacattaaa gaanatagaa actctcaata ccttg 415

<210> 14323  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 14323

gctttaggag aaaccatcaa aactaaagta gtgcctaaac ttatatatth gaggaagctt 60  
 cgccgagtgt ccccatthgaa aaacctthtat tcaaacttht caaagttagt gataaggcta 120  
 aacgaaaaat tatggaactt agaaaaacta aatccttaat tgaaggcgta agtgacaatc 180  
 atagcgaatt actaaacaag attagtagtt tgcttaaggt cattccatat actccccaag 240  
 cttctgaaaa tacttccaaa atggtaacaa gaaagacctc caaattaatt aattgtatga 300  
 atgaagatag tgacacaaac ttatataaca caactgagat aggatcagtg tc 352

<210> 14324  
 <211> 355  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14324

agcttttctca tacatacgaa gattttgtga gtntacaaac catgtttgtca ttcttgacaa 60  
gataaccaag aggcattgtcc atgtatactc cctcaatcaa atcactattg agaaacacat 120  
tattttaaadc aagctgaaac atgttccaat ttctgtgagg tgcaatggaa agaaacactc 180  
tcattgccgt atgcttggca acaagtgaga aagtgtccaa aaaatcgatc tctgcttgtt 240  
gtttgatgtg tgtacccttt tgcaacaaga cgagccttgt atctatcaag ggagccatct 300  
gctctatact tgaccttata aatccatctg caactgatgg gtctttttatc ggggtg 355

<210> 14325

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14325

tcnggggtttg ctctgcttc tctcgtgagt ataagttctg gtgattgtgg ttccgctctg 60  
ataaagagaa gaacgtatac tatgctgtga gtacaaagca tatagatgca catgattggc 120  
catatgtaat attgaaagat gaaaacacat caagaacagc caaaaagagg aacaagaatg 180  
tgagatcaaa agatgaattc cataacttggg tatcttaatt gcttcattga tggatcgatc 240  
gtaatcatct gcaatgacag cgacgtcaaa agttagctca atgtgggatc agcttatact 300  
gatactaaag aaataaagtt tactt 325

<210> 14326

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14326

ttcttgtatg aagaaggaga tgaatgaacg gagagggaga gaagagcacg aaattntgtg 60  
ctcaaaaaga gctctgagat ctgaagttaa tattcaaatg atcaaagttg agaaaaatgc 120  
acacacatga cctctattta tagcctaagt gtcacacaaa attggaggga aattcaaatt 180  
tcacttgaat ttgtggagcc aaactttgga gccaaaattt aactaattat gattcgtgaa 240

tgtagttat ggttcagccc actaatccaa gatcaattcc aagattctcc actaagtgtg 300  
 cttaggtgtc atgaggcatg anaagcatga aggacatgca cagagtgtga ctatatgatg 360  
 tggcaatggn gtatagtaag caaatgctca cctctccctc taaaattaat tgg 413

<210> 14327  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 14327

aacatacaca actcaagctt caatgaggtc cttcaatggt gattttcagc tatggattta 60  
 tcgaggaaga taaagaagaa gaggagagag gaggcaccat ccactagaga ataagccatg 120  
 gaaggaggag tttcacgcca atagagtgtc ttggataata aacttataga ggaagcttca 180  
 atggaggaag agaatgagag agataaaggg ggggctcgaa attgaatgag aaaaaaggg 240  
 agagaagttg aactctgaag tgtgtctcac aagttccctg agaaacttcc ttgagaaact 300  
 tccttgagaa gcttccttga gacacttgct taacaagctt ccttgagaag ctagagctta 360  
 tatatacaca cccctcta atct 384

<210> 14328  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 14328

ttcttgtttc tcgtggctag tgtgtgggaa tgtgttgagg gttcgatgaa acctggtatt 60  
 tataggagtg aagcgtagtt gcaggtcctt gtgacaccct ctacccctca catatatatt 120  
 aataaaggaa taaaaattca aatattaatt aaaagtattg ttaaacatt tttaaataca 180  
 agctcttcaa atggataaaa ggctcacatt cactctcttc tacatcatat tcaaatttgt 240  
 ccaaataaat aataaagtca tctcgactca aagaatatca tataagtctc atacaattaa 300  
 tatagaacct atatccta atgcacatctt atcagagcgt ggtgttcccg tgcctctag 360  
 catgaggatc ttcatagtca tccacctatt catctgctcc cccgaacaca agttcaagat 420  
 catcac 426

<210> 14329  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 14329

catagaaact aagcttacat cagatttagt atgatgcact aacctataat attattctta 60  
 atgccaataa cctaaggaat taaaataact taatggctga gtgtaactga aattgtggca 120  
 accaaaagtc accccaaca gccatcaagc cagccaccat ttggtctccc aaaaggctga 180  
 tgcctaagtt gccaatggg cccttattaa aacttgaact aaaccaaact aaagcccttt 240  
 taattgatta acccaaacca tatttttggg cagccaactt tacaaggatt gggccattat 300  
 ttagacaaac taaacactct aaaa 324

<210> 14330  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14330

aaccttttca cacaaggatg ctattggtaa tcaaaattcc tagagctctt ttaataattt 60  
 tacttctcta tcacatcatt cttctttcgt tacttatata tcatggctta aaaactatta 120  
 ggagaaattt aagtgataat tcatatacaa gtntatgaat attgattctg ttactcatta 180  
 attatcatgc aatntgngac caaacttggc tagttgggaa gctttgatac ggggaagatt 240  
 acattgacaa attgttcgat cttaantttt cattgtcata cagaatcagt actagttcat 300  
 agttatacaa acaataactg agatgggaaa ttaatatata tta 343

<210> 14331  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14331

ggcatttggg cangttgatc gtcgnactga nacanagcnn gccatgggtg ggctgcggaa 60  
 tctaacgaac caattaacct ttaatcttct gcctcacacc tctgaactgg cagtcggagt 120  
 ctgaggcctt ctttttctct catccccctt ttctcgaacc ttttggcgga gccttgtgaa 180



acgcaaccgc gcaagcacca caccgggcaa gggacccacc caaaaccagc tgtaacgata 300  
 ccgaacagga cacaacagcc cccaagacag cgcgaccaga catcaacaaa agagcgcgat 360  
 aaaggctcag atccacacac ga 382

<210> 14334  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14334

aggagaccga aaacttanaa accccantna ncanmncag cgaggctcat agnccgaccag 60  
 cagcatgcaa gcgggntttg ttattctcca cgaccgtcac gagcacggca acaatagtta 120  
 tcctagccta cacaagaccg agcgacagag caaggcaaga caccgacacc accgctgaac 180  
 aaaaccaac gcgctatatg cggacaaagg agctgaccca cgcgggattg ataacatgga 240  
 caatgaggag acgaacctac gctgcctgta gaaaaggtag cagccacgtg ctggaatgac 300  
 atcatgatat ctcaactgca agataagcac agatatctca gggagcggca ctgatgacac 360  
 gcgacgcaat acacaagcac tgaacatact gtacaactac acctgacctc gcatgacctt 420  
 aggccaccaa cataaagacc tatgactaga agcacgctac tgagtagagc cccgaaccat 480  
 acatacacac cctgaacggg gct 503

<210> 14335  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14335

tggcggcgaa acattgcana caacanctag anannaagcn ngcaaaccgc ccatggaaga 60  
 tggtagcgcc agggcaacct gttgtntttt tgacnaagag cccattccct ccggcaaaga 120  
 gtatggtcta tgcgtgaagg cagagcacca tgccgggaat cactatcaca ctcccaccaa 180  
 tgtccgagcc atgtgactta ttgtcgccca atgcgcgaaa tccgacgagg ggattcgttc 240  
 acctgttgag agttgcacca actgacagaa taggccttca atgaattacc gcatcattta 300  
 tagggtgtac actttacgag aagggggctg atttttcaga gacacagcga ccattgtgac 360

acactggcac ttgatttctg ttgttgagtc ttcccatact gctggagatg tctccataac 420  
atgggtgggct ccaacgtagc gttgtcctga gatgtcn 457

<210> 14336  
<211> 516  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14336

aggagtgcac agcctcatnn nccacgacta ttcagctcgg cacccgagct cctattagac 60  
tgcctgcatg cagagccgct atgtttgtgt tntctcaaca gggggaggcc tcgagagaga 120  
tgccgcttct ccttttatatg gcaggagaat attccttctg tcctaaccaa tgcttcagcc 180  
aaagaaccga aaagctcatt atgcttgtag gccacaagag aggttaaagt atgacacgat 240  
actagtttct tgacatagaa cgaaaaatga atcgctcgca tgctagggaa gcgccttaag 300  
accgaagtta taagcttaga ccagctatct ttctgctcta actaactttt ctcttatatt 360  
gctgtataca tgctaattct tggagccttt tcaggcccag cattaatagg aaagaatctt 420  
agacatagta aataatgttg caccaatctg cactgtcctg attcataaac ttgaactgtg 480  
gcttacacat acatatatac aactctctct atgcan 516

<210> 14337  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14337

nnntttaacc aattcangan gtacttgctg cgatacaata naanaccna gcatacatag 60  
ctggaggatt tacttgatgg aatacaagta tgcttttcaa tgctctttat cactatgaat 120  
ctgctagtgt gcttctgata ttggagagat gaagggatct ggatcttctc attcctaagc 180  
ttaatagcaa gagaactaat aagatttagg ctaatagctt tttgtgattg aacaagacat 240  
ttatttaagt aagacatgga gagaacaaaa gttgagaata aagcatccta gcaagaaact 300  
tacagaagaa naaatttaga aactaataga ttgagtcatg tagcaaggca tgccaatctc 360  
tctgcatata anatccatga gaataactat gttccaagtg ttggatggag aagttcctta 420

aaaaattcag cattcctttc ctccaaagac accaccaage agcaaattcag accactgcc 480  
cagattctta ttttctt 497

<210> 14338  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 14338

ccccaatcct ggcaaactgc aaccttttagg ctttgaattt tgacttgatc gaaccttttc 60  
ttatgaaagg gtgattgatt cgatcccatg ttttttctag aatgaaaaat tctgtttgaa 120  
tcaaactttg acaccctatc atggaggaaa tatgatcaat gcatgaagga atgcttatgc 180  
tatgcatgac acaaatgcat tgtgcagaca caagagcccg aaagatcatc tcttcttacc 240  
cactaacatt caggcatcat gattcatttg cagtcatcac cacagtgcc catgtatgca 300  
tataataatg tgatgtggac cttccaactt cccgtgacat aatgatgaga catatgtaac 360

<210> 14339  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14339

aaaccatgaa acaaatttct ctgtattagc tatatcaatg aaagtgggaa tgtaagttt 60  
tgtgcctgaa cctctggccg tgcaacactt gagagatatt gcggcactaa agtacttaag 120  
taatcttcca aggtcactcg tctaggatga ctcagaana gtagcctctt caaagactga 180  
tgctactgtt ctgtcgtgca aaagctttct ttttctctct acattgtttc ttctaaaggt 240  
gacttcaatt tctaaatcca atggaaccaa ttcacctgca aaagatctac gcatacaaac 300  
actaacagga acaacagtta accaattcaa gaagaaaata aattttggac taaa 354

<210> 14340  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14340

cctgcatgca tgcaagcttt gttaatctat tacactgatt nggtaatcaa tgaccattga 60  
ctgtttctga ataaatcaaa agatgtaact cttcaaaagg ttcttgaatt nttcaaattg 120  
gttttaagtt cttctaaaag ttataactct tctaaatggg tgtcttgacc agacatgaag 180  
agtctataaa aacaaggctt tgttttgcat ttcaattatc ttgaacactt attcatacaa 240  
tcctttacaa gccttaaate tctttgaact tcttcttctt ctttgtacca aaagctntct 300  
gaagttttct ggttttccaa agcttgaaaa cttgtgctat tcactctttc attctcttct 360  
ccctttgcca aaaagaattc tccaaggact aaccgcctga attctntttg tatctctctt 420  
ctccc 425

<210> 14341  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14341

tgacaaattc cttgngataa aggtagtgtt gccatgtttt caaagcccgt actaaggcat 60  
acaactcctt atcataagtt gaatagttaa aggtaagacc acttaacttt tcactaaaat 120  
aagcaattgg atgaccttct tgcatacaaa cagccccaat cccaacattt gaagcatcac 180  
actcaattta aaaagatttt tgaaagtttg gcaatgcaag tatgggggca ttagttagct 240  
tttgcttaag aacattgaaa tcttcttctt gtttctctcc ccattagaaa ccaacatttt 300  
tttagcactt cattgagagg tgctgccaat gtgctaaaat ccttcacaaa tcgtctataa 360  
aatcttgcta aaccatgaaa actcctcacc tcggtcac 398

<210> 14342  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14342

agcttgtctt tctatgagct tactagtngg gtatgtgggtg tttcactgac aagtcacata 60  
ttctttatac tngaagcttt tntaaataaa atgcatattt ggaaaaaaat tattgattct 120  
cattccttaa atttgatggg ttaggtatct tctgtttgca gataaataac aaaatatttt 180



aaggagagaa acagtaaattg attgttaciaa aatatngttt ttatttgccc taaaatactc 240  
 ccttttgttt ttttatacaa gaagcanaca actaattcat caaaaccaat gaaagtagtt 300  
 aattaattta tttcaaanat acccatagaa ttaaategggt ttagtagtga ttatagttaa 360  
 tgacagtaca cataatcaag agataattnt ttctactgat gaatggcctt gtattttaat 420  
 atgcctat 428

<210> 14343  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14343

gcacttttat tcttaacgca gactactggg ttacactctt aagagattat gaggtaaatt 60  
 atgtgggtta ggctctttca catgaagaat catgggttaga gtagtttagt tgacgaagat 120  
 aatagttgga atgactttta atgggtgaaaa atctttaaca ctgcatcaag agttagtttg 180  
 gtaggttaag catccaacac atctacaaaa tctgcaccaa acatcatttt ccacctccaa 240  
 gtgtntgggt tgttggtctt tgcattntgc tatgctttct tateccttat tatgggttgaa 300  
 gtttatattt ctgcacttat tactctaaaa atatttagtt ntagtcattc attcatttaa 360  
 ttcttggtat atacaaac 378

<210> 14344  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14344

agncttgttt ttgactcatc ttctctttga agtggcgtct ccaatcattc ttcttcctta 60  
 tccaatacac tgccattgat cttcaagaag aaaatgactc cattgatgaa gaagatccaa 120  
 ggctacaag ctccacatgg agctacgtca tgtgggtatta agagcatctt cgtctagggtg 180  
 atgttctttt gtttctctta tcttttttcc cgggtcaattc actctaattc cttattcttc 240  
 atcttattct ccatgtatat cctccatttt cttgtgggtt ggtactattt agagtagatt 300  
 cacaaaanat aaactgatta aatcttagat ctacacttgt tcttgcatth ctattgggttc 360

aaatttatag acctattctt gaatcatgnt tttgtgttga ttntaggttc tatcattntc 420  
 agtcataatc tttt 434

<210> 14345  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 14345

cgatactata aaaccagct taatagatgg tggctctatta tgccggaggc atcctattgt 60  
 ttcttaaagt tttgggtcgt cttctttgtg ggaaagataa ggaagtatgg gaaagtcagc 120  
 tacacaaact tgaaaacatg ccaaatacag atatttacca tgcaatgaga ttgagttttg 180  
 atgatctaga tcgcaaagaa cagaagattc ttttagatct tgcatgtttc ttcataagat 240  
 tgaatttgaa actggacagc ataaaagttt tattgaaaga caatgaaaga gatgattcag 300  
 tggttgctgg gttagaaagg ttgaaagata aagctcttgt aaccatttct gaagataatg 360  
 ctatatctat gcacgatatc atacaagaaa tggcttgga gattgtgcgc caagaatcaa 420  
 ttg 423

<210> 14346  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 14346

agctttgatg cattttatgg agagggttaat gaaacaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gaggggaatga 120  
 tgggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240  
 ccacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300  
 tcttatgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatgggttga 360  
 tacatggacg gagatgaaaa agatcatg 388

<210> 14347  
 <211> 430

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14347

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ctagatgagt tatgtctgcg aatcgacatc cggttaaatt attgaccatt ggaatnnctc 60
gagtccttcc gttgtttaat ttcaagcgtc tcgatanttt atgtccctca atcagacatc 120
ggagcgaaat gttatgacca ttcaatttgt cgagaggctc ccgttttcaa tttcgaacgt 180
ctagatgaat tatgtcaccg aatcagacat ctgagggaaa tggtatgaac attcgaatgt 240
gtcgagagcg ttcggttgtc aatttcgagc gtctagatga gttatgtcag cgaatcggac 300
atccgtgtaa aaaagtatga ccattcaagc tttgtcgaga gcttccgttg tcaatttcga 360
ccgtctcata tatatgtccc cgatcggact cgggtgcaag tatgacattg gactttgcag 420
agctccgtgg 430
```

<210> 14348  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14348

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agctncattt tatcatcttt atccatctca tcaacgtttc caactgtagg ctctccaacc 60
attatccatt catgatcaac aaacctcatt ccaagcttct taagatgtct ttcgataatc 120
tcactagagg ctttggtaaa gtacacaatc tcattagaga tatcaacctt gaaatagtca 180
atgaatcttg agggaagtac aacataagga aattcataat ccaccaggcg acgacacttt 240
agcacaatgt cttcaatcag tagtacccaa ttcattctga tacctaattt caaaccataa 300
gctatctata gatcatcatt cattaccga gcatgattac ttcacctag ttagagaatg 360
taggcgatga ggtatactaa tattgtgtcc tctgaaatca gtccaccaac tcctaaacga 420
atcctcaaa 429
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<210> 14349  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 14349

gatgaatcaa gattgtaggg agagtgtgat tatatTTTTta tgatgacaaa aagctaaaaa 60  
 gtggagaaca attcatgata acaaaaagtca agaatacaag aatgagttca agattgaatc 120  
 aagaacactt caaggttcaa aaggaaatTTt gatttcaaga atcaagaatc aagaatcaag 180  
 tttcaagatt caagttccaa gaattaagat caagatgcaa gactaaagat tcaagaatca 240  
 agagaagact caatcaagat aagtattaaa aagtttttca taaattgagt agcacatgaa 300  
 ttttttctcaa aagcctctta ccgaagagtg tttactctct ggtaatcgat taccacattg 360  
 tcgtgatcta ttact 375

<210> 14350  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14350

agtttttatt ccccttctaa atgatagact catagtacag aagtagaagc aacattcatt 60  
 ttaataatgt gcttttaaca tgcaagacag atttgattac aacataataa atgagataat 120  
 ggaacagaga atgcgtacac aactgtatac tggttcagca atgggtggaca cacataaatg 180  
 tgagaggtat ctagagatat catccattta gatattatac atcgtggcgg tagggactat 240  
 cagcgacatc gtatcattaa agagaaacac tctagatgag gcttcactag tatcaagcga 300  
 gtcgaagacc tagcatgacc acagatcaac cttcactttc tatgtctgca cggacccgga 360  
 tatanggccc aataactcac tatgtg 386

<210> 14351  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 14351

gtgcttctac acaagagcca ttaaagcact gtttttgtat ttttaaagca tagttttaga 60  
 gggagagtaa aaaatatatc acaaggagaa gctaaagcga caacaagttt ttggtaagag 120  
 agcttacgtt agaggaatga agtttaggggt ttagagggtta gaaaaaacat cctcgaccag 180  
 cctttgtcat tttatttcac tcaaaaccca tcctttcttg tattgagcat attgcttgga 240

atggaaggct aagcctatat gatgagaacg tctgctgaaa ccttgatgta acactctgtc 300  
actatctata taat 314

<210> 14352  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14352

agcttcattt gaatcaaagg tgattcanag gtgttttgat gataacaatg atgataacaa 60  
aagatgatga caaagggtgat gacaaanagc tcaaagatca atcaaagaac aactcaagtg 120  
aatcaagaac aattcaagag ttcaagataa gaatcaagaa gaattcaaga ctcaagaaga 180  
aagtttagag tcaagaatca agattcaagg ttcaagatct caagaatcaa gatcaagatt 240  
caagactcaa gattcaagaa tcaagagaag gcttaatcaa gataagtatg actagtcttt 300  
ctcacaaatt gagtagcaca tcatttttct cacaacatgt ttaccacaga gttgttactc 360  
tctggtaatc gattaccaga ttggtgaatc gatta 395

<210> 14353  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 14353

tgctgcctca tgaggaatgc cttgcgctta gatagcatga ttaaaccctt cgataaatatg 60  
tatgtatgta aatatgtagc atgaaatgcc ttgcaaatg tagaatagaa tgccttgcaa 120  
aatgtgaata tatatagcat gaaaatgcct tgcataatat gaatatatat agcatgaagt 180  
gccttacaaa gtgttttgat gggtagcgta aaagtgtttt tcaaaatatg tgtatttgtg 240  
agtaggtagc aaaaaaatcc ttccaaaaaa aaatgtgtgt atatatagaa gatgtagcat 300  
gaaaagggtt ggcaaaacag tatgtacatg gat 333

<210> 14354  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14354

cagcctaata ttctttatta aaagtcataa ttggtgccat tacctatcat catttctatc 60  
ttacctatct tgaattatgg ccttggtttg tgtgtctaga ttgacaccag actcctaaat 120  
gcacaatata tttcattgca agcttaacaa cagtcccaaa acccaattnt attcgaaacc 180  
aagtgtcatg atttctatat taccaattnt ggtagttggt aatggtgaat catagttttg 240  
ctttctcatc tgccttttgt ctcatctctt taccttacia ctgagtcaat tctatcatta 300  
ccctttttca atatgcagaa ttagcaacat gaaaacatat ctaatccagc aaatgccacc 360  
atcaatagcc aggctatggg ccagaaccaa cgaaatgcct catgtcccat ttctttcatc 420  
ttctaaa 427

<210> 14355

<211> 100

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14355

caaagtattt tttttctttg aagccttctg anaatataag atcaaaccacc cagttaattc 60  
agggtatttt tcaacaaacc gaaaaaaaat aaacctaaaa 100

<210> 14356

<211> 406

<212> DNA

<213> Glycine max

<400> 14356

tttggccaat tgtgctttga cccaaatttt cctttgatga atgatgctct cctacaacct 60  
aagacaaggt agaaggagat aaattctaca ggctcaaggt tcaatcaaac aatcatactt 120  
tcagctcaaa atatgtgcaa gggataaatc aatcatgcac aaggtaagct ttttagctaa 180  
gtggctatct tcaatcaaaa catggccttc atcatcttca atttcacgca ttcattccat 240  
actcagagat tcatgcaaaa atcattactc aatgttagtc gttctctcac aattaaagat 300  
cacactctca cctggctgtg gctaagtgtg accttcacaa tcaaactgtc aaactgacta 360  
acattatcag tcatgatcct aatccatggt ctttctcttc taatca 406

<210> 14357  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14357

acatgagttt gtggctactt cattcactcc tctaatact atagcatcat ttctggcgct 60  
 aaactgttgg gagttggaag tcatcttctc aattaaatnt ctggcttcag caggggtcat 120  
 gtctccaacg gctccaccac tggcaacatc tatcatactt ctctccatgt tactgagtcc 180  
 ttcataaaaa tattggagaa gaagctgctc ataaatctgg tggtagagagc aactggcaca 240  
 tagttattta aatctctccc agtattcata tacactctct ccactgagtt tcctaattcc 300  
 tgagatatcc tttctgatgg cagtggctct ggaagctgga aaattttttt ctaagaatac 360  
 tctcttgagg tcatcccanc tcgtgatgga ccttgagcgc aggtaatata gccagtcctt 420  
 tgtcact 427

<210> 14358  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 14358

agctgtattt gttctgttct gggaaacgaa ggtcaagtgt gtgcgatatg tgaagatgat 60  
 gttccaagta cttcggattt ggtccgacca tgccctcctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccgc catttacgca acaagcataa tgtaaaccctt tacggattta 180  
 aaagctctat agtagggcct aagctttaga gtttgcatta tgataaggct ttgtgtatct 240  
 tgtttttgaa ttcataatac aaggatctta ctacgtctgt tcctggactc taccattgt 300  
 cattcattag cat 313

<210> 14359  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14359

tcaccttcag aggactacac gtnctcgcct tcagaggact acacgtgctc gccttcaaag 60

ggtcatgtac cttcaccttt ataaggctac acgccgtcac cttcaaaaga ctacacgtcc 120  
 tcaccttttag aggactacac gtctcgcga tcagaagact acatgtcccc cattttcaaa 180  
 agaggacatg ccctcacctt tagaggattg catgtcctcg tcatcatang actacactcc 240  
 ctgccttca aaaggcgaca cgtcctgaac ttcaaaaggc tacacgccct cgcctttaga 300  
 gggctacgcy tntcacttt cagtgggctc catatocaca ccttaagata att 353

<210> 14360  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14360

gactgcttta aatagctaca taatggggga ttcctttgac caagaacatc atgacaattg 60  
 ggattcataa tttggcctgg ttgttgaatg ttgggcatgc cataggctct tggaccaaatt 120  
 tttgatgact atctntaatg gtctggtaaa agaggctaaa ttttttgcaa catgcaatct 180  
 acgttagtgc atttggttga aggtaacaca tatttaaggt tttttgggct cagcagctga 240  
 tttggaataa gaataggtgt ttcacttctg tttggtgcac aagcaataaa tcaaggggat 300  
 ccctaacaga gagactgaga gatgatgtaa ctttactcca tttatgttta ctctttctcc 360  
 atcttgacta tgttttctct taca 384

<210> 14361  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14361

aacttccttg agaaagctct ttgagaaaac ttccttgaga gctagagctt agctacacac 60  
 accctctat aactaagctc acctccttga gaagcttgct taagaagatt caagctagag 120  
 cttanctaca cacncctat aatagctaag ctacccccca tgacagaaaa catgataata 180  
 ataaaaaaaa agttcttatt acaaagacaa ctc 213

<210> 14362  
 <211> 262



<212> DNA  
<213> Glycine max

<400> 14362

cgtcgccacc tttaaaccga aggaacctat tcaatgccac gatggtgtag tgaaccgcgc 60  
aagaccctgc agccaactct cttctcaacg atcccatgtg cgtaacaata tacctaataca 120  
gcttaattga caccgcgtac aggtagagaa aagatttagc ttaccgcggc ttcttcgtcg 180  
ccagcgatgg cgtgcgacac caccacgcca tgatacgacc taggaccggg gctgaggccg 240  
gcggccatca tgtcgacat aa 262

<210> 14363  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14363

aggcccccg aattttngag cntnatacat aaaactcagc ttcactcatt tatttgtcca 60  
gtagaggaca gaattcatta ctatacaacc agagctatgg acgctttggg gtaactacag 120  
accctccaaa aaatcgcaact cgagatgctg agtgatgtgg ctaacaactg gaacttcaat 180  
acacgatagg gttggacatc gaactataca cacatcattc cctgttccac catttctaaa 240  
ttataaccag aacgggttaa tctatcacat ttcacaaaac taccaaagta tacaccatga 300  
caatattcat cacaccaaac aacagtgaag tcatactcca acaagcaaca caccttgtct 360  
acaaactcat tgtaatcatg acgagcacct gattcaacta gcttgcaata ggcaaagatg 420  
tgcattcaat accgtgggct tattattgaa ctgggctctg cacaagacac acaaag 476

<210> 14364  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 14364

agcttgtatt attatggggg atccatcaca tgtggtacta ggtggcgggc gggcgatggg 60  
gcacaacaat ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gtcacgtac tcccacgtag cccatatacct cgtttctctc acaacaccgg 180

gtccgcatca atcctcccaa gcttcccaa catccaggta atacaacatt caaacagcac 240  
aaactatcac agccaagaaa acagggcaaa ggcagaaaac tctgccccaa acaccaacca 300  
aatcacaac caaaatcaca gcttttctca cttaaagacc ccagtaataa ttccttcggt 360  
ccaattcggt aaccggtgga tcgaactcca aaatttactg gaagtctcta gtacataagc 420  
ctacat 426

<210> 14365  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 14365

gagtcccgta atacatcaag acgctgcgaa attgaataca aaagctctag caaatataat 60  
cgacgataac tttctactcg gatgtccgat tgggtcacgt aatatatcga gtcgctcgaa 120  
actcaatact gaagctcaca gcaattatca acgacaatga atggatatact cgatatcaca 180  
ttgagctcac gtatatatcg agacattcga aattgagtat aaaagctgtg agaaaattct 240  
aacgactata actttttact cagatg 266

<210> 14366  
<211> 284  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14366

gaggtggcta aggttcaacc tagtctcaat gttttccaat cgggtagtat gtaaattgggc 60  
tagtggattt atcagcgatc gacgcttttc ttgcttatca ccacaacaag taaagcccag 120  
tcattgttgt tttggctgat gcctatgccca cattcgacct gagatgcgaa aagagtagtg 180  
cangaaattg tctgtgtaca cctgctcttt atgtatgggt ggtctccac atttttgtc 240  
atgaaggtag gcctatatgt ccnctacaag gtcatcacat gtgt 284

<210> 14367  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14367

tcctcgaggc cattncctgc gaaggcaaac attnggaaag tttttttacc agtgggacac 60  
tactcttaaa acgaaaatgg catacaacct ctccccataa acatcaatgt aaatttagag 120  
caagctbatg cgcataatttc cctacgaacg ttcacttgca caagacatcc tattaactaa 180  
gaaaaatgca cccatataca atcaaggtag cttcattacc tagattatit acatgtactt 240  
ccaagggtgta tttgttatit acatcacaca cgcctccttg gctaaattta catacatgca 300  
tactcaaagc atttcggggg accaaaaatt gcacatgcgc tcatcttggg atttctaata 360  
cctatacata taaaaacttc atgatgaatc ttgactacct acgcaataag gtgctacatt 420  
tcatgctctt tttttttttt 440

<210> 14368

<211> 332

<212> DNA

<213> Glycine max

<400> 14368

agcttgtttt gtttgcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60  
ggcgatattc caccatggag atgcagcgga agacaaagga gaataagtga gaggatgcgc 120  
catccactac ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
acaagcttgg agaggatgct tcaatggagg aacagagaga gagaaggggg caacacgata 240  
ttgaaggaat aaaagacgga gagaagtgga actttgaagt gtgtctcata agactttcat 300  
tcatcagagt tacaacaagt gttacacatg ct 332

<210> 14369

<211> 255

<212> DNA

<213> Glycine max

<400> 14369

gaggatgtta atgtatcttt cttatgtctc cgtaaaagac atatgaatca agagatttgt 60  
attagctcgt ctcatgtaat gcatgtctta actttcaagt tatagttcct gcgtaggata 120  
ctctcatgat attcatatgc taagttgtat aatttagcga tctaacaaga caaatgtaat 180  
ctcccattgc gtgtgataga ccaatcacat gcatgatgcc caacacggaa cgcctcctaa 240

gaatgtcaca cctct

255

<210> 14370  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 14370

atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 60  
atatataggg tgaatcggtga gagacaaaat cgccctcatg cctatcccgg aagtgtccga 120  
ctccacaaaa aatggcaagg agaagtctgg taaaccaagg atgggtgctt aacacacagc 180  
atccttcaat ttgatgaacg cctgctcatc ctcagagttc catgagaacg agccctttga 240  
caaaagcacc gtgagaagtg ctgctctact cgacgatccc tttatgaatc tttgataaaa 300  
ccccaatata cctaacaagc ctcagacagc tctcgcagat cgtggtgtgg gccataagtg 360  
tatggcttaa attatcgctg caccagctcc actccgcgcg gggacatata g 411

<210> 14371  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14371

aatatgatgt agaagaaaat gaatgtgagc ctttttcccc tttgatagac ttgtaaaaaa 60  
acatatgttt tacaaatact ttttaattaat atttgaattn tatttttctt tattagtata 120  
tatgtgaggg gtagagggtg tcacaatgag tgtgatgatg caatgttata gtatagaaat 180  
atgccactt gattatagta ttggtagtag aatattactt cacttggtct caagagcata 240  
ttttatctgt aaggacaatg ggagaaataa tcagaacatg aatgtaacat ataacttaac 300  
tcgtgctcat caagtactta taagaaatga ttgttgattt t 341

<210> 14372  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14372

agcttattgt atcaaaattg ccttaatcat ttccaaatat gcatgtgaat tangacgcat 60  
caacaagaat caagccaagg ctattatgca agcaatcaat ggggcaaaac ataccaaatg 120  
attataatga tggatggctc aaattcttac aaaggtaaaa tcatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaanaa 300  
catgcaaaat cgtacgtgca cacaaaattg acccagaata ttaaactaat aatccgacga 360  
aactaacaac attaacaaat taacacaacc aacaaaacta tgcaaaccac agaacactcc 420  
ccccccccc 429

<210> 14373  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 14373

aaccaatatt ctctagacca ttgtagacac tacctacgga ttcttttcaa aatccctctt 60  
ccaaaattga ccatcagtag tacctatagc tggacttcca aaattacttg ttgtattccc 120  
aaagaactct agaaccagga gtcactagac tactctcatg ttctatttag tagctcctac 180  
taccaaacac acataacaac ctattatggt ccccaaaaac ttcagaagta acaatcacct 240  
atctactttt ttgagatctt tccttctaag cctagggggg ggacaaacac ttgttcggat 300  
atggcattaa tggctccacc tagagtgcct ttggctaaga agtccattca attagggtgg 360  
ttttctactg acctttaccc tatac 385

<210> 14374  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14374

tttttttatt tcaaattctg actcaccata naccttgacc cagggtgaga atgtcaatcc 60  
ttaccctcgg aagcaaaaaa gaatagaatg gaaatttcca atcaaagaaa agagaatgaa 120  
aatttccaat gaaagaggac aaaagaaaag ataggaaatt cccaatcaaa gagtgcgaga 180  
tagaaaaaga aaagaaagat aattcccaac caaagaatgg gagatagtaa aaagggaagg 240

aagctcctgg tcaaagaaac cagagaggtc tttggaccag ataatatctg aacagtacag 300  
aattgtcacc aaatgaacaa aaaggaatga aaggaaacca cgacctagaa tgggtcttctc 360  
cctttaatta c 371

<210> 14375  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 14375

tcttatccaa ggctcatctt ggtggtgaag cttcttcttc tatggcttat tcctagtgg 60  
atggcgctc ctctcacctc ttctccttg tcttcogctg catttccatg gtggaaaatc 120  
atcattaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180  
gcttccatca ctgctgttgt tgggtgctgac ggctggacca tctgagggtta gggcgattct 240  
tgtatccagg gttgtatctg ttgctggaga ggtcataatt gttctgctgt ggttgattct 300  
gcttctgagg ttgaggagga ctattgcaa tatttgacgc ataagcttca agctgctcaa 360  
tcactccaag ttgctgcatg gagggcaa atgtctgtatgg tggtcagcac aggagcacia 420  
accacatacc cttgtaca 438

<210> 14376  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14376

atcttgtatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatgg 60  
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
ctccatctga gctcacgtac tcccacgtag cccatctcct catttctctc aacaccgggt 180  
ccccatcaat cctcccaagc ttccacaaca tccaagagaa acaacattca aacagcacia 240  
gctatcacag ccaagcaaaa cagggcaaag gcagaaaact ctgctcaaca caccaaccaa 300  
aatcacagct nttctcactt atagacccca gtaacaattc cttcgatcca attcggtaac 360  
cgttggatcg actcanacat tntactggaa gtctatagta cataagccta canttttgac 420

cgtgggatct a

431

<210> 14377  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 14377

tctacttatg tggcagggcg ggcttccttc accttcttgt cttcaacgcg aattttgacc 60  
attgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttggtttt 180  
tcctaaaccc atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
tgcatcggac agacaaggct tgccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
aaaagactgg aaagcagttt ctaacgattc ttctgc 336

<210> 14378  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14378

atcctcctcc ggaaacagct caccgcgcac gactcttacc tgtggccgcg cctctcccct 60  
cagacgcagt cttccctcaa atcgctcttc ctctcctcga ttcaatcgga aaacatcaaa 120  
tccatctcca agaagctctg cgacaccatc tctgaactcg cctctggtat tttacccgac 180  
aacgcctggg cggagcttct tcctttcatg ttccagtgtg tttcctcga tttccctaag 240  
cttcaagaat ccgcgttttt aatcttcgcg cagttgtcgc agtacatcgg cgattccctc 300  
actcctcaca tcaagcacct ncacgatatc tttttacagt gcctcacgaa cgctaccgtt 360  
aaccctgacg tncgaattgc gg 382

<210> 14379  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14379

tctatgagtc cccttgagaa ttgngtttct cttcttcttc ttcttcttat atgggatccc 60  
tctagccttt gcctgacact ccttgacctc acgcaggtac acccaaatgg ctctcctac 120  
aaaaggatta gtctctggcg atccgtcatg ctctcataa gcagcgcgaa gccggcctat 180  
gagggcatcg aggctacccc atgcttgctt gagagggcag gcacacggtg cacgaggggt 240  
gggctggcca aagaagatgc aaccgtgcaa gtggagcttg gtttcccata ttgatcgagg 300  
accgaacgaa atccaacaca tggttgaagt tgcaactgaga gagtgggaact ggcggactct 360  
gat 363

<210> 14380  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14380

ntctttattt gttttctcca caagcttcat tgagaggctt gtagcacact ccacacatct 60  
tctcaaaaat acccacgggc agatcttgga aaaatgtgtt ggcgaattgt agaccacaat 120  
tagagaagat accacgggtt atgaaagctt ggccatgggt ttacccatgg aggctcctgt 180  
ttctttcttt aaaagcctca tttagaaggc ttctctagaa acctcctcta gaagcttctt 240  
cggggttctt tgagaaactc tctcaagagg ttctttgaga agctacatcc ttatctatcc 300  
cccctctatt aactanattt acattcttaa aaataattac ggatgaaaat aacgcagcaa 360  
ataatccgac atcagacata attacttatc atctatagat atatatatca cggtcgtaca 420  
ttgagcatcn 430

<210> 14381  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14381

naaaacgttc gngatgctan atagtacaca ctccgnccat aaaaggcctc aatattaccc 60  
cgctattttc taacttccag gcaaaaagta atggaggccg gaattttctta taacctccgg 120  
tttccattcg gagccgtttc gtatattacc aggactaaac cggacatcca gtataagtgt 180



atgccttttc attatctcaa gcttcgatat gaaattgacc tctcgtatat aatggactca 240  
ctacacatcc gaggcgaagt attttcgtct gaattgatac gacatccgat acattccgag 300  
catactccaa aatacaacac tctgcacgca tcaaatacaa gaatgggtgtt aaatttctac 360  
agttactttt gcggttgaag ttgaattaaa cggactcacc gtcgtactga taagtacagt 420  
gtcagatcct 430

<210> 14382  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14382

agctctggtt tttcttcatg aagaaaccaa gaattttctca cgagtggact gggctccaaa 60  
tctaataattc actttggccc tttaaaagat atcctcctcc gttaagggtta ttattaatga 120  
ccagaattgg actggttaaga attgtgaagg ataccattgt ggtggtaaata cattgaggtt 180  
ataacatggg tagctataga actaacgaag attgagtttc caatgaagga agtaaaatgg 240  
agctcacaat aggcctcatcc atggttagagc actntatgga ctntgatctg gaggaagata 300  
ggaataaaga ggggttatgg aagcaggagg cagatcggan agcacgacaa ggtgttcaat 360  
cagagaagaa acattttctat tcccactgng taataaccag aagccccagt ctagcaaaag 420  
tacactacat a 431

<210> 14383  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14383

nggccttttta cttttgcatg ggctntatga tactcagcta gaagactnnc ncnngngggc 60  
aaggctgatg ggaagcnatt antttgtttt nacgcgaagc acgacccaaa gccgtttatt 120  
acaaaatcct gtcatgtcta gtacacgcaa acgggcttac aacacgtttc catacgatgg 180  
cgcgacttca cttgcgtgat acattatgct aatgagaccc tccgacgtcc tccctatgca 240  
catgccaagg atccaagccg ttccaacat tacaatcccc gtgcttctta catcctatgg 300

caagagacgg ggcgccacaa aggaggttca gtggggaagc gcgcccttaa acaacagaga 360  
 atatattcta ccatgcttct gcggttcacc aaggcgtgaa ggcgagcact ctccaacata 420  
 tttcttccct gacacaagac aaatgtcgcg cattaaacat cttttgggac cg 472

<210> 14384  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14384

tgcatgccag cctatatctt ctaagcaaca ctctcactct ggggagactc caaaacgatg 60  
 ccgttttggg ccccaactcaa gtcaagcctc tccaccaagc tcctcaacat aaccgtctcc 120  
 tctctctgca aagcgaagca natccccaat gccgaaacgg caatcgtcga cggcatacga 180  
 ctcggcgtgc tccccgacgt ggtcacctac aacaccctaa tcgatgcgta ctgtcgtttc 240  
 gccacccttg atgtcgctta ctccgttctc gcgcgaatgc acgacgccgg cattccccct 300  
 gacgttgttt cattcaatac cctaattctc gccgctgtga gaaagtctct gttctcgaag 360  
 tccctcgacc tgttcgacga aatgctcaaa cgaggcatca accccgacgc atggagccac 420  
 aacattctaa tgaa 434

<210> 14385  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 14385

aaggattcag gaggattcaa tggaggattc aggatatgca agagcttttag aaaaggcttc 60  
 agttaggtaa aagaattttt ccaagaaaag attgaccaca caaattgtcc agaaaatttc 120  
 agaatatctt taccgagttt actctttgta tagaatacat aggtagtatc gttactaaag 180  
 tcaaacattt ataatgatta caaggagaat cgttccaggg ctgtatcgat acattgcttg 240  
 tacgtcaaac tatttcaaat agtgtattga taccagtggc ctgaatgtgg attcaacctc 300  
 acatgagagt ctaaccttat aaaataact 329

<210> 14386  
 <211> 334

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14386

ggggaccaac ttttaatgct aattttgaat ggggggaatc atgggggcttg gcaattattt 60  
attataatct tctaccttct aagttgtaat taaattatat attatntata tgatacacaa 120  
aacagcacca agagcttcat ctaaagtttt tttttttcct tttaaaataa agagttgaaa 180  
tcttgatcaa cttcatcttt gtcgtttggt ttcacttagt agcgatcctt tcgaagcccc 240  
ttccttccat cagaaaacac aaatcccgat aaaaaaatt gcatgttcta aagtgtgaac 300  
gtcaacactc agaagtacac aaatttcctc accc 334

<210> 14387  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14387

gggtgtgacc tgaaccgcca tgaaccagct ccatggacac tttttaataa gcgggggggac 60  
ttttgaatta tatatgtggn agagcgccct ctcaaatatg gatctatata tatattctca 120  
cattctcttt tatctcgcgc tctaaatata ttcttctcaa ataataaata acaatttttt 180  
catattttta ttttttatcc ttaaaatatg gcgatacttt tcaccaccag aaaaatacct 240  
attcattcca atgagtcctt taccaggtaa acgatcttta tatttaccct aggcttatgg 300  
ataccaggga taagttacct actttttccg cncttgagaa agggagaaga ggaatgcttg 360  
gatctgaacc catttgagaa aggtggagag gtgagacgga gagaaaaatg atctgaaac 420  
acaaaagtga taactgattt catgtnnaaa agagaga 457

<210> 14388  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14388

agcttattta tgtatcatcg gacagggatt ngatggagga ctgttatgat tgagttctct 60

ttctatatat aattacggct ggcattata tcgatattca atcatatttc cgctgaaccg 120  
atatttcggt caatcaatcc ttggacacat ggtgaatttt gagcacttca acagcagctc 180  
gaaagtgaat catctggcga ctttcaacac tccggtactg atggcacacc aatcactaga 240  
acgaagttta ctacggacgc tgcacagagg gacaagatca gtgatcccta cgatc 295

<210> 14389  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14389

aatcatgaag gaggaatac atgatttaac agtaatattt gaaggagtgt aagttatgag 60  
ggggaaaagg gaaaaataag aaaagaaaag cagcaciaag taatagtata aaaacaaagc 120  
aagtagcaat cgagaactca acaaatcaca ttatatttca ataccaatcc tagatgttgg 180  
ggttttacat aagactccta tagtacattt atccaggatt tcaattatga aagtgggaagc 240  
accagtgaga acagtacatt tcaaaggagc gtaagttatg agctaaagga anaaaattaa 300  
cacggtaata gtatatacac acaaagaaag ttgctatgaa gaactcagca aatcatatta 360  
gttctcaata ccaatgcccg tgtgaatatt a 391

<210> 14390  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14390

agcttgatga ttatggggta cccatcacat gtggtactag gtggcgatcg ggcgatggtg 60  
cacaacaagt tttccacatc cacaagcgc gcataaacc accatcccct gttgccacc 120  
tccatgatgag ctacgtact cccacgtagc ccatatactc gtttctctca acaccgggtc 180  
cccatcaatc ctccaagct tcacaaacat ccaagcaaaa cgacattcaa accgcacaag 240  
ctatcacagc caagcaaac agagcatagg cagataactc tgccaaaaca ccaaccaaat 300  
cacagctttt ctacttata gacccagtc acaatatctt cgatcctgtt cattaaccgc 360  
tggatcgact cgaanattgt ataggaagtc tttagtacat acgcctacat tgtgaccgtt 420

gggatcta

428

<210> 14391  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14391

ctccatgttt ttaaaaggaa cagctaagga atatagaaga atgataaatg cttcagcagg 60  
aagatactat gtcaatggga ccacaacaaa agtaaagaaa attatagaag atgtagcagc 120  
tagtgaacga ggccgtgatt gcaaccgcac ctctccaaag gacattccca aataagatac 180  
cgaagatgaa tcccttaaac aacaaacaca aatgaaagct atgatggaga gcataaccaa 240  
cagcatagtn aaacaacttc aaccaatgat accocccaaaa caatcagttc tcccatgtga 300  
agagtgtgga ggtaaccacc atacctctta ctgtatgaag gaagtagtca aggagaccac 360  
attcatgaga gaacagacta caaaatta 388

<210> 14392  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14392

agcttctttt caattntcta taaatagggg gagaagtga gtagaaaagg gttcagcccc 60  
ttatgcactt ctctctttct caaaatagct gaggaaaatt aattccgtga aaaaaatcca 120  
agccaaagcg ctccgtaac gtttccgtga gtgatttcgc gaaggttttc gaccgttctt 180  
tgaccttttt cattcgttct tcatcgttct tcagttctca gtgggtaagt acctcaaacc 240  
aagctttttta attcattcta tgtaccctgt gtgggtccaca tttggtttca tgtattttta 300  
ttctcgttgt catttacttt ttataccccc ttttgacgtg cttaagccat ttatttaagt 360  
cattttctgc ttaatctaaa aataaaataa atctccaccg atcgtttgaa ttgtatcatt 420  
c 421

<210> 14393  
<211> 408  
<212> DNA

<213> Glycine max

<400> 14393

ctcaactaag attacgctat gcagaagctg taatttgtct aatgtctatg ctcgagccaa 60  
agcttcttat tagaaacttt tgtgaggttt atagatacaa tacaatttac aaacgtttgt 120  
atagaataag ttacttaaag tactgacacg taccctaagt tgatatcaat actccaccaa 180  
tatgaatatg agaagtatcc aagcctttaa aaaaaataga atgcttgtgc tccttacata 240  
agaggcaaag tgaacaggat gaagcatctt gtatagaact tttggagtgt gtctctaaat 300  
caaagagaca tttagatcgt gatcttgata atcctaaacc atgcaagtct agaaagtcaa 360  
tagttctagt tcattatttt cttgccagta cagcaagatc tcattttg 408

<210> 14394

<211> 393

<212> DNA

<213> Glycine max

<400> 14394

agcttttgta ttattcaaga agtgccttat gaatactccc gtgcttatgc caccagtacc 60  
tggaaggcct ctcattttgt acatgacaat cttggacgag tcaatggggg gtatgttggg 120  
gcaacatgac gaatccggaa agaaagagcg cgctgtttac tacctgagta agaagttcac 180  
gacctgtgaa atgaattact cgttgctcga aagaacgtgt tgagctttag tatgggcac 240  
ccatgccta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300  
ggctaagtac atctttgaga atccatctct cacgggacga atcgcccggc ggcaagtcct 360  
gctatccgaa tttgatatag tcgacgtcac aca 393

<210> 14395

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14395

attgaaatca aactntgcc a ctggtaatag actgggtttc ttattaccaa aacctgtaa 60  
ttgattacac agagcatttt atgaaaagat gtggctcttc acaattgaat ttgaatttca 120  
acattcaa at acactggtaa tcaattacca atatattata atcgattaca ccatttaaaa 180

aaacaattgg aacggtgcaa atttagctaa aagcttttga aatcaaactg tgccactggg 240  
aatcgattac cacagagtaa aaactctggg aacttagaaa aatttgagaa aaaactcttt 300  
tgaaaaacaa aattgtgcta tgtttgaact ttgaaaaatc ttttcaatac ttcccttggtg 360  
aagacttctt gatntcttct gatgaatctt gaattcatct tctc 404

<210> 14396  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14396

agcttgtttc ttttggtgca tagaatgcag gcaaaaaaaaa aaatagtaag tgtcatgaat 60  
ctatgacata agcttcaacc aattaacatt gtttgtatga caactgttgt agttggacag 120  
caatcacaca gtttgtccac catggaatgc tntatgttcc tattgggttat agttttggta 180  
tgctttatgt tcctattggg tatagctttg gtgctggaat gttcaatttg gagtccacat 240  
aaggaggaac tctatatggg gctggagttt ttgctggaga tgggtacaaga caagcaagtg 300  
aaatggagct ggagctcgca gagtatcatg gcaagtatat atgaaattag cccatanaag 360  
ctaggctgga ttctgtgatt aatnatceat taagccctcc tagctagggt agcattctag 420  
tc 422

<210> 14397  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14397

ntaagtntca cggagtntga tattgggtgt gcattcttat atttgcaatc tatttcacaa 60  
caattatctc acttttctct gaatcgtagc taagtttgcc cttgtttaag ttaggggaata 120  
tatataatta gttagatatt ttcatatagt taaaatttag gaaatttatt agcttttaca 180  
tgtttttaca gtgatttagt catttttagtg cacctggaaa gaaattaagg gtttggaagt 240  
gaaaattgat cactcaatga gttgccaagt agcttaacta ggaagccata ttataagaag 300  
acacgtggta gctggtggct atgcgagaag tctatctctc ttagcagatt tctcttgaag 360

aggccatgtc aacaacatca aggcttggtg agtgaagcaa cctctttgga 410

<210> 14398  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14398

ttcttatttt gtagcagttc cagggacat cgacgaacgg gcgatcaata canaaagaat 60  
 actcattcca tgggaaagga atgaaaatca cacactttgc ctcaactctg ctaaagcaat 120  
 tggatgtaca gtgggtcaaca ttggcactca tgacttcatt gaaagaaggg tatgtatgta 180  
 agccttctag ttccacca taaaagcaga attattgtgg gcatgtacac tgcagaacca 240  
 caaaatttaa gatttaattt aatttataaa tgaaatctgg tcagatttga ttatttctcg 300  
 atcaaagtaa ttctcaatca agttaccct gttntaaat gattccgaat gctggtaaag 360  
 tatctctata gcatgtaca tatttataca gtcaaagcct ttctctattc 410

<210> 14399  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <400> 14399

gtgtggtgcg gaggaccgaa tctcggttat aatattggtt gttgcgtggg gtcagagaag 60  
 tgacacgaat ccgttatcag cgctggttca ggactccgtg aagcactccg cgaagaataa 120  
 ggtggttccg ttccataaga aattgcccaa atggtggcca actgtaatca attccaacgc 180  
 ttctattttt tacgccgatg aacatgagga atacaagagg gaggcttatg gagtggttcg 240  
 aggtttggtt ttcttttct cagatacatt tag 273

<210> 14400  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14400

agcttatatg aagaaattaa ccggttgtga gacaacatac actntgagta tgaacctacg 60



cataaacatt cattttcttt atgtaaaaaa ctctntataa atgtctaaat aactcctcaa 120  
aataactgga ttatcttatg agaaataact aagggctaag attgtatatt cgtttgtaag 180  
acaattaana gagctagtca ttatgcatac aaacaacaaa tttgtttgat ttatataagg 240  
gctaataaga ttgtatattt ttttgtaaga cgattaaaag ctagtcattg tacaaacaga 300  
caacanattc gtttgattta tatagacccc acgatggctt gttaagacaa ataatatcgg 360  
ggtttaataa gattgggggtg gagtttgtct tggtaagtaa gaagtgggtg tgacaaaata 420  
ctta 424

<210> 14401  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14401

tgtgcagagt tgtgagcaac anagggatct aaaaaatata ttctaaaaat taataatcaa 60  
atagtattga taaaaaaat gtgcataaat caagtacaaa tccttcaaaa caaagtaaga 120  
tcaaatagta attntagcag aaaagagaaa aagaagcnaa aaaaaaaga taagcaacta 180  
aagttagaag ctaaacgtaa gaacaaaacc aaaaccattg gaatttaagg tgtgtgtgag 240  
agaactgagc cgaaggaatt gtgacctatg aagaacaaat canagtgaat atgcatagaa 300  
gagtgtcatt ttttttaaac taagaaatat atactttac 339

<210> 14402  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 14402

ctccaaacct atatacatcc actcactcta acaacaatct cacagcctgt actttatttg 60  
tatttactaa taacttatct ttaaaattaa ttaagtctaa tcatgagaga attaaaagat 120  
cttaatcaag tgaatttatt gctattttgt gattgaattt taaatatcaa tttaactaat 180  
acctatacta tgttgcataa agataatgta gatatgtact gacttatata ggccaacaat 240  
gcaatttgtg tgatgattaa agtgtgatta atagtaatta atcataatac ctttgtggag 300

gattgagttc gaagaggata gaaatggaaa agcagattga gaagatgtgg ccttccttgg 360  
 taaagtgaga gaagtggcca atatcataac ttcaataaca aa 402

<210> 14403  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14403

gcatatgtac tntaagtgag agagaagata taaattatatt gtaataataa ttaatattac 60  
 gagtaaataa catatacaaa gatgattaat ttttacataa tcaatcacat attatcatat 120  
 aatgtaaatt gattgatagt aataataaaa atataaaaatt catattaatt atgatttaag 180  
 ttctaaacat tatagatgat atgataaaaa aaatgtgtat aaaaatgaga aattaagcaa 240  
 taatgagaga aaataaaaatt gaataatgaa agagagaaag agtgtgaccg tcacagcttc 300  
 caatagattg gtgttgtcgt gcaagtactt gaggacccat gttagaacac ttgctgtggt 360  
 gtcattgtgca gcaaagatga caccaatgag attatcaaca acttgagaat ctgtgtgctg 420  
 ctgatagtac atc 433

<210> 14404  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14404

aatccaaggg gccttttttc cttgcctgaa ctctctttta atattggtgg aagaaaactc 60  
 ggccctgctg actcacagct ttgctcatta attgtgggtg cttgttttcg cactgagcgt 120  
 gtattgtgct ggaccttttt caactatgct ctattgttct tagatgatag gcttttaatc 180  
 catccctttc atatctgcaa gcccatgaat atgaaaaaca tcagttctta acaattaagc 240  
 atgaataatt gttaaattat aactttacag gatattttca ttatatgttt attataanaa 300  
 acatatacata tntacctgtt ttaactagtg acttatagcc aaagaagatg aaataactga 360  
 acttagttca tttccactgc act 383

<210> 14405

<211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14405

tttttttatt tcttagtcta tcgtaaagaa gcttgcccttg tgaagccatt gtggaactag 60  
 aggtgtgtat aactataggc caaataataa tttgcgcgct ggaaaaatat ggatggtaat 120  
 gccttaattg tttgttaata ttcacgggat tgtgacgtct tgtgtaanag tactttttct 180  
 atgatgtccc tttgatatgt ataacctgta actgaaagca ataacacgtg agaactaact 240  
 cggtgcaatt aattgagata atgggtgctgg aatttataag taaagcccat ctaatggatc 300  
 attgataaat tttgaaaact ctaaaaatat atctgaacta acatatg 347

<210> 14406  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14406

aacctactca gacagcagat gaggcactnt gccaacatcg gtccataacc ttagcgaggc 60  
 tggcattgta acatcatcat gatatgatac aacacaccga gtgactagat tgacataacg 120  
 gagacaccta atggtatcta attgcaaaga ataacacttg cctaacgggc tgtaacccta 180  
 ccttcggcac ctcccacact atacatcgtg agctaagatg tgtgggagaa cggctgatcg 240  
 gccaaagcga ccaagatgca atctccgaaa accacatgat tcgaatcgaa tatgatgccn 300  
 ggcacgagtg cgcctgagtg ctataatcta caatctctat acgaactacg cactcatctg 360  
 ggatcttaga gaaacttctt actagatggt cacaagctag gctattgaat t 411

<210> 14407  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<400> 14407

gatcactatc aatcaataag aaatagacct agatatttat ttagacgtg agcatagcac 60  
 ctctaatecg atataagcgt gaaatcttat tgtagtaga cagagtatcg catcatgcaa 120

tctaattcct gtattgtac

139

<210> 14408  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14408

gaaaattact caaagaaaat tgcaaacct tactgttata agtaatagaa gcaaactgca 60  
ttgagttata aattacgaaa aaatactata gttcagaaca aaaatgctgc agtcaacatc 120  
atctataatc acattatcta taagattggt tacctgaggt tacctgtaac agttgcatat 180  
taacatcccg cggaacacca ctgagcaagg cagaaatggt cccactccca cccctcctt 240  
ttgaacctgc caagtcaaaa gcatcaataa agtaagccac gagccatgac ccttccaaca 300  
taacatataa tagaaaatca gagtaaacct tcattctagt tccgagattg caagtgtagg 360  
tcattntagt tctnttacia aatctcatat t 391

<210> 14409  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 14409

cacagcttca gttgttgatc tgtaaccaa aaggtagctg atatatgctt gtttgattag 60  
gtgctacatt tagacgagag cttctccaag atcagtattt gtttatcaaa gtaccagtga 120  
cctccaacat atattctttg cacatccatt ctgtggaaca actggaagag atacacaccc 180  
ccttctcctt catgatatta tggcttcgta taatactatt gttttcatca gttaggctga 240  
aaacaaaacc atcatcttct tcatctatca acatgaaacc ctacattacc ttctccatgt 300  
tgtcactctc tcaaaacctc accgtgtgtc actcagaact ctgagtgat tctctcactc 360  
aaactcaaag aacagaacag at 382

<210> 14410  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 14410

atgatctaga gaatgcctgt taccatctgt tcggacatga ttaagttttt aacataatag 60  
 tcatgcttgt attggtttta gacaattgtg caacaattac tttattaaact actacattat 120  
 caattaacca ttagccgttt tacccaagct caagcaagcc tatcacaacc tttcttaaact 180  
 gttagccatt gatgttacga ccattcaact aactggataa aatttattta ccaattacca 240  
 ttactggatt gataataggg taccaaacad gattgttagc acaaaatatt gcttgctctt 300  
 tagtaattgg atgttcattg ttaacagata atatctgata ttgcctctgt gccagtcctt 360  
 atttctctct agcgagtata t 381

<210> 14411  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14411

acatgactta caagcatgat ctagaggttag cattagtcac ggggtagaca ttagaagcta 60  
 cacatgactt aaaattcatc acaagatgca atgtataaac aacaatgaag acatttgtgt 120  
 ctacatagtc aagaagcaca caccagaagt tgtgacgaac aaagtcatgc actagtgtac 180  
 taatgcaata tcatgacaaa ctctctaat atcaatgatc aaatatgaag aacagagcta 240  
 gtcacgtact actattacta tattaataag ttaaccgtga gagacaaaaa tgagtctcta 300  
 acatctgcaa tgtaacaaa aggatctaca ccattatgta gaagactcac tnttctaaaa 360  
 gagtagcaaa actcatgact 380

<210> 14412  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 14412

agcttggtgc atcgtatatg cgagacagag accaacgtgt tagctatcat cgccgagtac 60  
 caagatgagt taggtctagc cacggccac gagcatacaa tcgctgatga gtatgctcaa 120  
 gtatatgagg aaaaagacgc tagaggaagg gtaatcgact ctttacacca agaggcaacc 180  
 atgtggatgg atcggagggc tcttaccttg aacgggagtc aagaacttcc ccgattgtga 240

gccaaggcca atgcatggc agacacctac tccgaccgag aagagatata tgggctgctc 300  
ggctattgtc agcgtatgat agacttaatg gccacataa tcagagatcg acaggaaact 360  
tgtatgggct ctcagaccgt gactagatat gac 393

<210> 14413  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14413

attcaaattt caagtctgaa gagtcacaac tcttcataaa ctaactgtgt aatcgattac 60  
cacatttatg taatcgatta ccactaagga attttcgaaa ataactccca agaatacaca 120  
ccgttcaaga agttcttgaa tgaccatcaa aggcctataa ataggtgact tgtgatacga 180  
aattcattag agtntttttt aataacattg tcttatcctc tcaaaaccaa attgtcttat 240  
cactctcaaa atattccttg gccagatac tttcaaattc aataaggaat cttgatcgat 300  
cttcaattgt aatatgcttc tcttaaagag agaaaattct tcttcttctt attcacagag 360  
atctgtttta gagaccaatg gtctcttaag ttgt 394

<210> 14414  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14414

agctttcatg catttgtagt acgctttctt gatctgccct ggagtggcat ctggaagctg 60  
gtgaaatgga tcaaccaatc attaaacata cactatacag tatgatatta atatatatct 120  
tgataataat gttctctctc ttccctcaat tataacacta ctctaaaaga agggaaggag 180  
ggaaagttca ccggttcgat cccaactaat aaattaacga ttaacattta ttaataataa 240  
aaaaaaatta tagcattact ctcacagcca caattactct agatgtaact ttcgaattag 300  
ttgttacaaa attagagtaa gtaaaaaaag ttngccagta tcatgtattg tattaaattc 360  
ttcatttgtg gttaactgat tgagcagctt ggatgggtta ttgtaaatct tgtgatactn 420  
tcttcaattc atat 434

<210> 14415  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14415

tggccaaatg caacacaatt tgttcccaat aaatccatat ctctttatga tcaatcataa 60  
 gagcattggg tagggacctc atccaatgaa agtattcaac tnttggattg atgaaacgag 120  
 ctttcttgac tttgtaagga aggcatatac atcctacaat gttcaaggat gaggtgctta 180  
 tgtgggtcaaa gagaaactca agctcctaaa aaaaatcatc aataagtgga gtgtggacaa 240  
 gggtgggagt catcaaacac aagtcgacaa gttggtggcc aatataactt ctttggatgt 300  
 tggaagaatt tcatangaga aggtgtgtga aagggagac atgctcaang gagtttggaa 360  
 gaatgcaaga atccaagaat taattaatct gcanaagttt atgcttaagt ggccaatata 420  
 actttccttg gat 433

<210> 14416  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14416

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gtcgaagaac 60  
 gggtgaaacc tttgcgaaat tcttcacgga aaacgttacg gaaacgtttc ggaagcgcct 120  
 cggccttagat tttcttcacg gaaacgattt ttccaagcaa attcgaaaga gatagaagtg 180  
 ccaaaggggc tgaacccctt ccttcttcac ttctccctt atttatagta aaatagggga 240  
 ggtggttgcc gccagctcg ccagggcgag ccaggttgct tctccagaa gcaacagcct 300  
 tctggaggaa tattctggag ggcccaagtg ggctgggtg ctatttgac cccattttt 360  
 actaagtaca cctcctctg ccttnttgg tgattctttt ttcgtanagt tacggaaact 420  
 tac 423

<210> 14417  
 <211> 413  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14417

cctcgaactc gctaagctca tataacttag acgaatTTTT ttatttntgc cttgcgctaa 60  
gcgctcact tttgcactaa gcgttattca ttgcggtttg tataaagcta agcgagactt 120  
gctcgctaag cccaatagcg tctagtagtc gagtcgcgct aagcgagcac ctctcgctaa 180  
gcgcatgttt aaaactgttt ttccctgagc taagagagtg cctatctcgc taagccaatt 240  
atgcagaaaa gattttctgt cataactcgc taagcctatg agttatttct cataaggcac 300  
gctaagcgag catgatctcg ttgagcgccc actgtgtttt tcagttttta atgcatgctt 360  
tcaatttaaa taaaagttag ctaatatagt tntaatgggt cttttgtcac aaa 413

<210> 14418

<211> 401

<212> DNA

<213> Glycine max

<400> 14418

agcttatttt atttcaatta tgcgacgacg agaaaacaaa acacaattaa agggatgaaa 60  
ttcatacttt aataagttaa tgggatgaaa aatatgtttt aatcattatt ttattaaaaa 120  
cttaattata tcttatattc taagggttaa ttgatccct caatttttaa aatgtttaat 180  
ttgatctttc aattatttag aatgaaacaa ctatatcttt tgcacatcat ctcttaatta 240  
tgtggtgaaa atagattttt tttttattac ttgtcaacac aattgatgta aaacattata 300  
tttctaaaat taattgtttg gccaccgatg ttaaaagata ttttcaaac tttaccaaat 360  
ctagcctttt acatcgattg tcaagcaacc gatttttaaa a 401

<210> 14419

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14419

ntgagccaca atcctaactc accatagacc ttgacttant gtgatatatg tcaatcctta 60  
ccctcggaag caaaaaagaa gagaaggaaa atttccaatc aaagaaaaaa aagagaagga 120



taattttccaa tcaaagagaa agtaaaaaaa agagagaagg aaaattttcca atcaaaggaa 180  
 aaaagagagg aaaggaaatt cccaatcaaa gagtgggaga aagcgaaaag aaaagaaaca 240  
 aaattcccaa ccaaagagtg ggagaaagta aaaggaagga aagaaagctc ctgatcaagg 300  
 atcgaaagaa atcanaagaa atgtgcagaa aggtcttttg accagacaat atctgaacag 360  
 tacagaattg tcaccaaata aa 382

<210> 14420  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 14420

agctttatatt gttttggaat caaataaaga accaaaaata gtctcatatt ggaaaaattg 60  
 ttcatatcgt gtctcaatag aattaattaa ttgatctaata atgtataaaa aatactcgat 120  
 acgaacagat tcttcacgtg aatgtgtgat ctctactacta atattttcat caaatgaga 180  
 ttttctatga attttacgtt tttcacaaaa ttttggtctt atatccattt cgatagccat 240  
 tttttctgtg gattctaaag tcgatgcaaa cccgtcttcc ctataatggt ttatataagc 300  
 gataagacct tttaaatgat ctatagcaac atctatatgc atatcttttg attgtacaat 360  
 cctgctaaca gaaattgcaa caaacaacat atcata 396

<210> 14421  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14421

ccctgatccg aatagncgag gttgggtttct ccgctatatt tatttggtg ggaaaaattc 60  
 aatgcagggc atatcatttc caattttctg gttctaaaac caatgttcaa aattgattct 120  
 ggaattagca acaatacatg tctccacttg tatgaaatgt gacaaggcaa ttgatatta 180  
 agacgtagga atgcaatttg agaaggctag gtgcttgaga tgttaatgtg agacgcgact 240  
 ttgattgcac atacttaggc ttatatctac aaggaagact atgataactt tattttatttt 300  
 ttggngngagt caccttctaa ctctatgctg gcttaagga 339

<210> 14422  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14422

atcttttcatt attgaaatca ggtgcagcca tctccctaag agtcctctta cgaagtggag 60  
 gttgagtcatt gttctcagta tgaaaattac tagtcgaatg ctcaaaatca gaatattcag 120  
 aatcaccagc aacagaatac tcaaaatgct caaaatgcac agaatgacca agatgcacac 180  
 tatgcctaac taatctatga aaggttctat ctattccagg atcaaaggat tgtaaatcac 240  
 ctggattacc cctagtcatg cactatatgc agcaaatac gtgtntctca gacaagcacc 300  
 agcggagggt taaaactaca actatagtaa aacgatatcc atatgagctg aaattctgtg 360  
 atcaacaccc tataataatg aaaagatagc acaaaaattt tcagactaaa attcaaagtc 420  
 taacta 426

<210> 14423  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 14423

cccatgttga cacagatatc ctagctacta tatatactaa tctttcttca tgtgggtgct 60  
 taactaaata tatatgtatt tctgacaaat cacacattag tatgaaaatg aatgatagtg 120  
 gtacacaagt tccagtacaa tagttgaaat tcaataggag gttggcaaatt tcataactca 180  
 gaaatagaga aaacaaaaat cttatcaaaa ggtaagggca atctgattca ggcattcgag 240  
 tcaagccaat atgaatatta attttcacct gtagctaata cacagaacat aacaggaata 300  
 atagcatata ctgagatcga ttactttac 329

<210> 14424  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14424

atcttgttgt ccgcgattga caaagggtgc agaagacgac gttagtctct gcatgctatc 60

atgcgttgac tgtagcgat agcaaaagaa tgtttataact aataaccact tgggtatttc 120  
 tgccggcccc ctaacttcac gacttattac cgacagagtt tgtaagcgtg gaagacgacg 180  
 tatactctccg catgtgaacg agcttggttg ccgcgattga caaatggtgc agaagacgac 240  
 atatgttttt tcatggtatc atgcattgag tcttacagat agcaaaagaa tgtttatagg 300  
 gataaccact tnggtattta cgccgacccc caacatctcg agtttg 346

<210> 14425  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14425

tcaagaaaa gatggcctca gcaaattcct tatttcgga atggaatnct atcaatagac 60  
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240  
 aagataaatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gctcaaaaca 300  
 taataacatc tgccctaaga atggatgaat a 331

<210> 14426  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14426

cttttcacat gaatgtccga ttcgggcgca taatatgtcg agaagctcga aattgaacaa 60  
 cggaagctct tgagaaattc aaatgggtcat aacttttcac acggatgtcc gattcaggct 120  
 tataatatat cgatacgtc gaaattaaac atcagaaact ctgcgaaat ttaaatggtc 180  
 ataacttttc acacggatgt ccaattcggg cgcataatat gtcgagaggc tcgaaattga 240  
 acaacggaag ctctcgtgag attcanatgg tcataactct tcacatggat gtgcgattca 300  
 ggcgcataat atgtcgagag gctcgaaatt gaacaac 337

<210> 14427  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14427

tcggacatcc ggtgnaagtt atgaccatta gaattttctca agagcttccg ntggtcaatt 60  
 tcgagcgtct cgacatatta tgcgcccgaag tcggacatcc gtgtgaaaag tcatgatcat 120  
 ttgaatntct cgagagtttc cgatgtttta tttcgagcgt atcgatatata tataagcttg 180  
 aatcggacat ccgtgtgaaa agttatgacc atttgaatgt ctcaagagct tccgttggtc 240  
 aatttcgagc ctctcgacat attatgcgcc cgaatcggac atccgtgtga aaagttatga 300  
 tcatttgaat ttctcgagag tttccgatgt ttaatttcga gcgtatcgat atattataac 360  
 cctgaatcgt acctccgtgt gacaagttat gacca 395

<210> 14428  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14428

accaaagatg atgacaaaaa gcccaagaga atgattttcaa gattgactca acaagtttca 60  
 agaatcaaga gaagtttgat ttcaagattc aagagaagat gaattcaaga ttcaagagaa 120  
 gaaatcaaga agacttcaca aggggaagtat tgaaaagatt tttcaaaaaa caaacatagc 180  
 acagtttttt ttttcaaaaac agttttttctc anaattttct aagctaccag agtttttact 240  
 ctctggtaat cgattactag tttctgttaa tcgattacca gtggcaaagt ttgattttcaa 300  
 aagttttcaa ctgaatntgc aatgtttcaa ttaattttcaa aatggtgtaa tcgatta 357

<210> 14429  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14429

ttcctaacta gatgatatag atgatggatg ttaatgtgtn caaccctaca atgccccaac 60

catgaatcat catctatgtt actcaccaag caacttagct catgaaaaga tgcattgctca 120  
acattcagca tataaatatt acctattctc ttaccaatgt ggacaacttt accagatatg 180  
gcttcactta taagatagca attgctgtca aactcaatct tgaaacctct atcgcaaagt 240  
tgactaatgt ttagaagggt atgctttagt gcatccatat gtagcacatt ctttatctga 300  
gggttgtgta aatccctata tttccttccc cagttatatt tcctttggta ttgtctacaa 360  
acatgacata tgatecatc 379

<210> 14430  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14430

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atgttgaaac aaaatcactt gattgtcatc atcaataagt gggagaatgt gaatgtatga 120  
atacatgaat tttgatgatg ccaaagaaga atcaaacaag gccacttcaa aggataagca 180  
tttgcttcaa gattaattca agattgcttc aacaaacaaa gccttgtttc aagattcact 240  
aaagttcaag ccttgccctn aaacaaaggg tttcaaggct atgcaacgct ctgggttattg 300  
attaccagga agtgtaatcg attaccataa gggaagaatg aaatagagct gttgaagagg 360  
gtntgaattt gaattttgaa catgtaaccg attaccatat gtctg 405

<210> 14431  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14431

gcatatttcc ctacgaacgt tcaattgcac aagacattct atttctaaga nanatgcacc 60  
catatacaat caaggtagct tcattaccta cattatttac acgtacttcc aagggtgatt 120  
tgttatttac atcacacacg cctccttggc taaatttaca tacatgcata ctcaaagcat 180  
tntggggtac caaaaattgc acatgcgctc atcttggtat ttctaatacc tatacatata 240  
caaaacttcat gatgaatctt gactacctac gcgataagggt gctacatntc atgcattttt 300

tttcaaagtt ttgctaccta aagccacatg caaattcaag catatgttcc tgtgctgact 360  
acaattgtat tcaaactaca acgtatatac tttttgtgaa tatgttttct tacataacat 420  
gcacatatta tattatttt 439

<210> 14432  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 14432

ctgtctggcg tttatacatc agcgcacaca cgagtgagga gtcaggatga ttcacatatt 60  
cgcctgacct gtacgacagc gagaggcgcg ctatgccatc tgcactgccc gcacaacatt 120  
gctgagatac cgtgccgccc aatcctgctt tgatgccaaa gcttgctgca tggcggatag 180  
ctgcctaaac ggccttgctc agggggctct ggacatatc gaaattatcc caatccgctt 240  
tcggtcaggt gatagcggtg gctacgtcga tcaaactgat aacatgaatc caactgctta 300  
cgaccgcacc gaagaatatg tctctggcga catttgaaaag gaaaagctgt gagacgggat 360  
cgcggttaga gcatgacatc cggctgtgcc ctgtaagcct ggggacgagg cgcaggactc 420  
ttgaaaaacc c 431

<210> 14433  
<211> 159  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14433

cacactgact aatattccta actgtctctg ctgtcagacg ttcttccaac tcaccaaacg 60  
atacatcttn tttccctctc aatgacccaa tgattatcta tctcacttca ctttcttctc 120  
gcttacttcc cctcacactc ttacgtgctt catcactta 159

<210> 14434  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 14434

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atgagaaaac tggggcaa at gaagaggggtg agaaagaggg agaaacccat gctgtgactg 120  
ccattcctat acgaccaagt ttcccaccaa cccaacaatg tcattactca gccataaca 180  
aacctcttcc ttaccaccg cccagttatc cacaaggcc atccctaaat caaccacaaa 240  
gcctgtctac cgcacttcca atgacgaaga ccacctttag cacaaccaa ataacaccaa 300  
caaataggaa ttttgcagca aatagcctgt aggggttcacc ccaaattccg ttgtcatatg 360  
ctaaacttga tcccatatcc actcaataat tcaatg 396

<210> 14435  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14435

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gagggcccaa gtgggcctgg ttgctatttg cacccccatt tttactaagt acacccctg 120  
cctttttttg gtgattcctt tttcgtaaag ttacggaaac ttacgaattt cgtaacgata 180  
cttgttttct tttcgtaatg ttacggaaac ttgcggatta cataatcatc cctttttttg 240  
acttacggaa tgttacggaa cctcactaat tgtgcatcga tgcttcatt tgatttcggg 300  
tgtgtcacgg aaccttacgg attgtgcatc aatattntct ttngttttct ggcattgctt 360  
ggaatttcac gaattgccta atgatgggtg ccaagcacct aacaaggacc aaacaanagt 420  
cgcatgtcat c 431

<210> 14436  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 14436

aacgagacat cgggagcgat tcaagatatg acgagcggtc atccctattg actgatttcg 60  
cgagtgactg ccgcattatt aggaatcaag acaagtatga ttccacgatt cctgaggaga 120  
tgatttcatt attctagata ttaactcagg aagacttccc aaggtaatta ttgtatcgat 180  
cgttcacata atctacatag cacagtgtct ttatttataa ctgggtcttat catatctctc 240

taaggtccca tattgtttac tatctggtat agatgactag atcctgtata gatttccatg 300  
 ggaatattct gtgtctaacg ttcaactgat tocaatgttg ccacttttta taatgggtga 360  
 cattgaccaa tgtagttttc gatacattat tgccgacat 399

<210> 14437  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14437

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 gagatgtgag ctcaacaaga ctcttctttg taggtttgta agctcattcg tgaaagatgg 120  
 catgatcact gattgccata ttntccatta actccatagc ttcacacacg gtctttaatt 180  
 taatttttct gccagcggat gcatcaagaa gctccttgga atgggggtcgc aagccatcaa 240  
 tgaatatatt taactgaaca ggctcactga acccgtgagt aagagtcttt tggagtaaaa 300  
 catggaagcg agcaagagct tcacttaatg attcatcang gaattgatgg aatgatgaga 360  
 tntccacctt cccttttagca atcttggaact cttgaaaata tttatttagg aagatctcca 420  
 ccatatcttc ccatg 435

<210> 14438  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14438

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 acgagctgca agcatgcatg cttattttatc ttttctcact aatctgctcc atgcgtggac 120  
 tattacaacc tgtacctctg caccaccacc atgtgcggaa atagtactca atctactgat 180  
 taacaacata tattacagca tatatattat aatgaagcac actgtcagat gatagataga 240  
 ctagtatact actacctctg ggacggtata tgaactagaa gctcgaagct cgctgtctag 300  
 aaataggtga gacgatttca tactctgccc cactccaaca acagctgctt cgtaacgtca 360  
 ttattttcat tcatcatatt actgagcgac ccgcttgga cttgctgacc cgtgccatgt 420



gcattacttc tgagactcac cttgtgcgaa tgagctcgga gacacaaaaa cagacaccct 480  
cctataatat accccacgat ccgctgaggc cctgcttctg 520

<210> 14439  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 14439

ttatattcat gacgatcgag agatttggtt ttttgatgag ttatgaatta ttggatatat 60  
cataaaaaag gtgtgagacc atgagagctc taaaataata tctgaatata cttacacgta 120  
cattatatat attagttctt ttttcattgt catacatttt atattatatt atacacgggg 180  
tttaaaacttt atgctaaatc aacttctatt attaatTTta caaatccata aaattggcag 240  
aaaagctacg tcatctagtt aacgaagttt tttatgcttc aaggaatttg aaattcacta 300  
tatagacagg cctgatcaat tgtcattagt tatttaaatgt cacgtaaaca aattaattaa 360  
ttaaacaaaa cgaatg 376

<210> 14440  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 14440

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ggcaaaattg gatgaaggca agagtgggtt ttgaaatctg cactttatgc agaattttgc 120  
tgtggaaatg tgcagcagaa ttttgcataa gtgcagaaaa atgcttatgt atggttggct 180  
gtggaaaggg tagtgacat ggggttctgg acatttttta gtagatccca acggatcaaaa 240  
ggtaggctta tgtactagag acttccagta aaattttcga gtcgatccaa cggttaacga 300  
cttgcaaaga agaaaaggtt actgggatat ttgtatgtga aaagctgtga ttttggtatg 360  
tgttttaagc agagttttct gcctttgccc tgttttgctt ggttttggtta gcttgtgatg 420  
atgggatg 428

<210> 14441  
<211> 231  
<212> DNA

<213> Glycine max

<400> 14441

cccggtgaag atcgaggaac tatgtttatc gagtgacgaa cgtccaagaa cgggtgaaac 60  
ctttgcgaaa ttcctcacgg aaaacgttac ggaaacgttt cggaagcgcc tcagcttata 120  
ttctcttcac ggaaacaatg tttccaagca aattctaaag agagagaagt gccaaagggg 180  
ctgaaccctt ttctttttca cttcctcccc tatttatagc aaaatagggg a 231

<210> 14442

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14442

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tcctgaccat acttcttttg gaagctgata attcanagga actgatggtc ctctattgat 120  
gagatatgtt gttgtgttta ttgcttctgc ccagaatgtt ttatgcaagc cagattggat 180  
ccacaaacac cccgctctct tgttcaaggt tctattcatc ctttctacaa caccattttg 240  
ctcaggtgtt cctagtattg gcttaataat tctgattcca tgttctgaac aaaagtcctt 300  
anaatcctga ctatcact ctctgtcatt gtcagatttt agactnttaa cctttagacc 360  
tgtntgattt tcaacttctg ttgtccactt ttaaacacag aaaacacatc a 411

<210> 14443

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14443

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tttaaataatt tctgatttag gaaaagaaca gggatacttc tacataatga aaattcacca 120  
aatctgtata tgtgctataa aaacatgcct ttttagtctt tagtgacagt aatngttttg 180  
ttcttacctt tctgggtttt gtcatgcgaa tntgagtttg tttgacttgc cctcattatt 240  
gcctaagtct atctggactt tcagggagag tggatcttat ctngaaaaga tgctngcaac 300

aactacaaat tacttcatct ttatatgtat gccgcgaagt gtgaaaatct tggccattca 360  
aaggatccgt tcttgactca agtttc 386

<210> 14444  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14444

caactaaaag tgcaacacgg atactcttca gatatcaaga gccttgcatc cctcaataat 60  
actatattgg cgagcctgta gtcgtatgat tgtcacatgt taatgcacca actattggat 120  
gtagcgatta gcgatatctt gcctgacata gctatggttg ccataactcg tgtgtgctct 180  
tctttaatgc tatntgtagc caatgtattg accctcgaca atcggatgat ttgaacaatg 240  
aagctgccat cggccttagt caattgtagt tgtatcttac tgcatacactt attgacataa 300  
tggatcactt aattcgtcat ctc 323

<210> 14445  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 14445  
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tctgactaag cattggaagc attgtatggt actggtgccg gcgccggatg atgagacaaa 120  
actatgctcg gtttcatgga cttacattgc attaaacttc attaaagagc gcaagataca 180  
tcaataaatt tgacaactcg agcttctcct ggaatgatat ccatataaca ca 232

<210> 14446  
<211> 226  
<212> DNA  
<213> Glycine max

<400> 14446  
ataacatgct taatgtggcg accattcaat ttttactttc aatgtatat caatgagcgg 60  
aatcttgccct caatttatgg atccgcgagt atatttatga catcagtact aatatgtcat 120  
atgcactgta ggataagtta ttggcttgac tattcgatgt cattagatta tgattctccg 180

agaagtctag cggctctatg gaagaataat acatctcgac ttatct

226

<210> 14447  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 14447

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aggaatgaca aagtctggaa tggagtgacc cctcacacat agtgccaatt agggatcatg 120  
ataccctata tcaatggagg tgtgctatgc gtatcatgca agagccacct catagacctc 180  
tcacacacca agtacatgat tggatgcct cgccaccagg ttatttgaaa ttcaatgtag 240  
atgttgt 247

<210> 14448  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14448

agtctttatg ctatgtggta ccatgtcagt gaaaaacctc ggcgggcgcc tatgagtaca 60  
tgacaagaca agccacacaa tagtaagtca agtcactctc actaggtaat atcataggga 120  
gaccagtcag ggtcacagtg ttttgcgaga attttccaac catatgagat caacatatgc 180  
ttaaaggagc actcaaaccg tgtgaccccc aaggcctaca ctccgaagag tccgtcaggg 240  
cctctccctc ctgattcatg tccaaccaag agaatatattt agcacacaga ctctatctat 300  
gaactgtaca aaacacatga cttctcaatt gttctcaaaa tacatntaac tcgtcgtcct 360  
ttaagggctc tatcattaac tcgtcgcct taaagggact taacattaac tcgt 414

<210> 14449  
<211> 511  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14449

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acagaatggt aggcgggttt ctttttttat gccgtaccga cactgggatg gagtatatcg 120  
 ttaagtgtct cgatcttgcg ctctttgtgc tacgattggg ttctgcgata taattctgcc 180  
 taagggtggga aattcgcgta gtcctcntt cagaggctat caccattcta ggcgtttttt 240  
 tagtggtctc gtctgtcggt agatacttcc ttgcctttct ctcttggtcc tctgtctata 300  
 atactttctc cgctgaactc tggcctcctt gatcctctat tgctattctc gccgtgtact 360  
 gagtctccta tctctcttta caattagatg ctctgtagga acattccatc ttttgctttt 420  
 tctttttttc cgtgtgaggg gtacatttgt gcattttttc gtatcggttt tcccttcggt 480  
 tcgatttttg gctgctttca caattgctat g 511

<210> 14450  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14450

aaaaaataat tccaaacctc ctatatgttc ctggtaataa tcccgtgaat ataaaaatta 60  
 aaccaaataa aatattgcaa tccaaataag catgtcttca tagtnttact atacactntt 120  
 ggaagcttca agttctcann atttggtgtt gggttataga aagctntgga nnagcttgat 180  
 tttcttctta ttattccgag aatatganag caatggaaga aagatattgc atagctaana 240  
 acgtatgttg tcctgagtat actatacacg ttgaaagctg ctggtgcttg aagttttgta 300  
 ccgacaaact tatagaaaca tatgcgtacg tgaattagat ttctaattat gatatacatc 360  
 at 362

<210> 14451  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14451

actcaagctg gactgacctc nacattatgg tacttatcta tgagagcttg tgtatttngt 60  
 tttatggtgt gaaagcttat ggtacttaat tagcatgcac tgggtcatgt gcgcatcata 120  
 tgctntagtc tancatgaaa ttatggctga gccatgttgg ttctttggta taggaagtgt 180

cacatgaaat ttgctagcag ttttctgctc acgtggttga gctcttatgc acactnttga 240  
gcaattcgtg ctagcaattt tctttggatt tgtacaatct ccataatagt taaagcagct 300  
tgtagagttt gaaaaataat cacatgattt aatgtcctgt tcttctcttt ctcttggaat 360  
ttacacattg ccttggagct ggtattngaa ctntgaaata nagagaacaa ggaatgacca 420  
ttactacaag cagaaaagta tgtcagcaaa atgatt 456

<210> 14452  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 14452

ctcgatatac tataggcctg aattggacat ccgtgtgaca agttatgacc atttgaattg 60  
atgcagagct tgcgtcgttc aattttgagc atctcgacat atgatcagcc tgactcggac 120  
cttagtgcca aaggatatgac catctgaatc actcaacaac ttgcatggtt gattctcgag 180  
cgtctctata tgagaatcgc ctgaatcaga ggtgagcagct aaaagtcagc accattttaa 240  
ttgctcaaga gcttccggtg tcaatctcaa gcggatcggc gtgcgacgcg catgaatcgg 300  
agatccgtgt gaatagatat gacca 325

<210> 14453  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 14453

gaatcggaca tccgagtgaa aagtgattat ccttttgaat ttctcgagag cttctatggt 60  
taattatgag cgtctcgata tattatacgc ctgaatcgaa cctcagtgtg aaaagtatga 120  
ccatttgaat tcttttagaca tacgatgtca ttttgagcgt tctatatgtg atgaccttat 180  
cagacctcct gtgaaaggat gacattgaat tctcgagagc ttcgttgtca atttcagcgc 240  
tcacatttat gccccgatcg acatctggga aagtatgaca 280

<210> 14454  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14454

taacctagaa taaaaataac ttaatgccat taacctatgg aattaaaaca aacttaatgg 60  
ctgagtgtaa ctgaaattgt tggcaaccaa aagtcaccct caacagccaa caagtcagcc 120  
accatttggc ctcccaaaag gctgatgcct aagttgccaa ttgcgccctt attacaactt 180  
gaactaaagc ccttttagtt gattaaccca aaacatattt ttggtcaacc aactttacaa 240  
ggatagggcc attattttaga caaactaaac actctaaaat tgaaataaag tgggtgtcatt 300  
tagtcctgca tgtggggccat gatacaactc acaaccttgg actnttctcc ttgaaacttg 360  
cgctagtatt ccaatagtat ggacagcac 389

<210> 14455  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14455

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tattgagcaa ttccaatggt cataactggt aaactcggaa gtccgattga ggcacataat 120  
atattgacac gctcgacatt gaacaacgga agctctcgag atattcaaatt ggtcataact 180  
tttaactcgg aagtcngatt gagacgcata atatatcgag acgctcgaaa ttgaacaatg 240  
gaagctcttg agcaattcca atgggtcataa cttataactc ggatggccga ttcaagcgca 300  
taatatctcg agacgttcga cattgaacaa tggaagctct tgagcaattc aaatgggcat 360  
aactcttcac tcggatgtac ga 382

<210> 14456  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14456

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atgggggtcc acacattcaa cccagtactt gaggacaaca ggtgagcatt ggactaccac 120

cgtcagaact ctcattcctc gtgggaacag tcagtgttc acatgactct tactgtgtga 180  
ctaagtacat cactcgtgaa accgacttcc tataacgaat tttagaaaac atccttcaca 240  
agccacagct gagctacaca ctcccgaatg gtcactaatc gcctctccct cagataccag 300  
acctggaaga tctctatgga agcttgagca gacccacacc tactcatact acttgtgata 360  
tcgcactctt cagatgtaga acctaagcca gctacgcac cccgatataa ctcacgctac 420  
cgcatctctc aagaaggatn 440

<210> 14457  
<211> 130  
<212> DNA  
<213> Glycine max

<400> 14457

cccagatgaa atgcgctcga aggttgtttt tcttagccca ctccacgggc agcgtcgagt 60  
cgcccaattg aaagatgcct ccggaatgca atgttttaac gtattgaccc gaactcgaag 120  
aggcgtgtga 130

<210> 14458  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14458

acctatactt aacagaaaat acttataaca caaatgaaa atactaagta tttttgggcc 60  
tttagggctc cataatatag gtaagggtacc ctagaaatgt aacatttttc agtccttgta 120  
ttttagggca cctagactag ttttttgtat taggggtagt tttataattt cacatgcatt 180  
aagtgaatat ttgatgtgtg tggttgtaaa taaatntaat tgaattggga gaagcccaat 240  
ccaattataa tttagagggg gaggtgagca tttgcttgta cacccattg cacatcatat 300  
agcacacttt gtgtgtgcct tcat 324

<210> 14459  
<211> 292  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations



<400> 14459

ctaaaagctt ttcaccctta tcgacgattg aaaaaagctt ttaatggaag tcaggggaat 60  
gaangcccc cagaaccatt aactggaaac caagttcatg atcgcgtaaa ggacattgta 120  
accgtgtttg ggaagtccca gaagaagaca tcatctccca acaacatgtg gaagaaacgc 180  
tcaatattct ttgatcttcc atactggtct gatctatatg tgcgtcactg tctagatggt 240  
atgcatgtgg agaaaaatgt gtgtgatagt ttaattngta ctcttcttaa ca 292

<210> 14460

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14460

cccacttaaa ctccaaaact gagcagagtt gctcattctt cctccatttt cacaagctgg 60  
tcaaaaggaa agaagacatc atttccactc ttcttccaag attttccaac cgtaaaagaa 120  
ccctccttcc atcaagctta ggtgaatgac ctccattttc acttcattat cttgctctat 180  
tctcacttgt agtttcaaat cttatattcg cactcttgaa cgttggaaac aagaatccaa 240  
actccctcat tctgccttct aaatttggtg gagactacaa cacgtanggg gtgtctctcc 300  
aactcttgaa ccctatgctt ttagttaact tccttgaaca tgttgtcttg aaattcccg 360  
gctagttgcc tatcctggat ctgtgtgc 388

<210> 14461

<211> 206

<212> DNA

<213> Glycine max

<400> 14461

gaatcggacc ttagtgtaaa aagttatgac cgtgagaatt gctgtggagc atccgttgga 60  
catttcccag cagagctata tgtgatgcac ctgagtcgga cctgcagggtg aaaagggacg 120  
accgagcgaa tttcgcgagc gctttcggtg ggcaatggca gccgccacac atgttaacgc 180  
ccctagtcga acatccatgg gaaaag 206

<210> 14462

<211> 433

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14462

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agcttggtta tgatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaataa aagaggtata gaagtggaac tttgaagtat gtctcacaag 120
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactangtag 180
cttccttgag aagctttctt gagaaagctt ctttgagaaa acttccttga gaagctagag 240
cttagctaca cacaccctc tcataactaa gctcacctcc ttgagaagct tccttaagaa 300
gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa gctcacctcc 360
ttgagatgag aagctagagc ttagctacac accnctata atagctaagc tcaccncat 420
tgacaaaaac atg 433
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<210> 14463  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 14463

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ggctggctat tatagaaaga tcattgtatg attttctaaa ttggcattgc ccctaactaa 60
gttgactcgt aagaatgaga agtctttctg gaatgagaag cgtgatcaaa gtttccaaga 120
gttgaagagg cggttgacga cagctccagt gttaattttg cccgaccctt atagaacatt 180
cgaagtgtat tgctatgcaa gcggggcaaag cttgcggtgt gtgttgatgc aagatggaag 240
agtactggct tatgcttctc gtcaattacg tcctcatgaa tttaactatc cgactcatga 300
ctt 303
```

<210> 14464  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 14464

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agctttgttg tctatgatca ggatcatcacg cgcgcgctca aggatctcgg cggcggtcgg 60
ggcaaccacg ccaggatcga cagcattccc gtgcagatgg gcacggccac ggccgggcagc 120
```

acgcccttcg agggccggct gcagctgac gacaaccagg tcgatgcccg aagcggcacg 180  
 gtgcgcgtgc ggcgcgtctt cgacaacaag gatggcgccc tcatgcccgg ccagttcgcc 240  
 cgcacccgca tgggcccaggc gcgcgacagc agcatgctgc tggtcagcga gcgcgccatc 300  
 tgcacggacc aaagcaagaa gtacgtgat 329

<210> 14465  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14465

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 ggctttgcaa tgcatacaca cgaacagaat gtcattggaaa ctaataatac ttaatgacaa 120  
 ccatcacttg acctacctgc aagcgcgcct gtcactgttc cccagctgac tgcaccaccg 180  
 cagtgtctta tctacatcac tgatcaaattg act 213

<210> 14466  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14466

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 atatatacat tactgtatat agtatattgg catttaattt gtattaatag ttcacagtta 120  
 attgttagac gcgcaaaatt tttagctatc tagtaactga tgacgtgagg atgaattgag 180  
 caaaattaat catgttaaac aaatgtagac aataatgtgt gtcttactaa tcatatcaca 240  
 attatataca ttgtggtgga gcaagtgaga gtgaaacttt cttacagaaa gccatacaac 300  
 agcaagggag agccactatc atggacacca 330

<210> 14467  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14467

agaagctcat ccagagagat gtagccactn gctttgtttt attaaaagaa aaagcagcaa 60  
ctgaatgata ttctatttca actttgttta aatgtaatgt tgcagctatg aattctctgt 120  
agtcaattgt gccactgttg tcaacatctg cctgcgatca gaattatctt ttttttaaaa 180  
tggaacaaat ggattataat ttataaggat gtgctactaa aactgggttaa cactaccttt 240  
accattctgg attctattta caatgttact tttccctact tgcataacaa tgtgtgacta 300  
aatgatactc agaagtcttt cccttgtaag actatatctt tagaatggaa ttataaacac 360  
tacccataat ataggtcaag ttacaacttg aaca 394

<210> 14468  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 14468

ttcttgtcta attgctacaa ctgcagcca cttcaatcac attgcttctg gaatgcaact 60  
gaggagtcca ctcccctact ccacctcttc tatattgtga ctgttccaca tgcacatcgg 120  
ctggctcaac tctcctcaca gaaccagact ggtccccaag aacctcagt ttatgctcag 180  
caaaaagctt atcaagctca tcagccttca ttatcagctc atcatgcata ccttgattcc 240  
ctctagattg cctcaccctc tggagttgct gctctaaagg tggagatgag gttgcgcgtg 300  
cattatcctg agtctccaaa acttgtttca tcttgctact ttcattagca ccatcccttg 360  
taccttgtgc cgtgcttatt agttgttcat ttctaccagg taatggatta tgggtactca 419

<210> 14469  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 14469

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aaagattaat cttattgaac tcatgctaga ctgaattcta gatgaggtct tataatagta 120  
gtgtagaagt aataaaataa aggtgcttaa aaggaggag ggaaaaaaa ataaataaat 180  
caacactcgt aacatactat ttttttttaa tcaacaaaat tgggtataaga tatatatatg 240  
tgggcacaaa ggggggtcaa aaccgtata catgtgattc atggcagaaa accaccata 300

ttggctaccg aatatta

317

<210> 14470  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 14470

agcttatatt tattatactt acgtcatagg attaacagaa tagcttatat cacattataa 60  
aaaaaaggat gacacactga tgataattta aaaagtttta caccagcatc taatcccaac 120  
ccatcttgta tgttaagata gttgattctt atgctaatta ctttataagt tatatcaaca 180  
atgatgatat aatttaataa cggtataaaa ctattttata tatgaggatc aactcattac 240  
attaacaata aaattaccaa gagaatcatg tcttattcta atacgaatat tttataattg 300  
attattagaa taaacaaaga tttctctttt ctcttgctta ctaattgaat gtatcctttt 360  
att 363

<210> 14471  
<211> 287  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14471

gacacatagc cacncaagct gttgcatgat cgtctggcca tccagctatt tatttgatt 60  
gatggctcct aactcaaga atctgagagt cttaaattga gagtcttgcc aactaggaaa 120  
acatgttaag tcatcatttc ctcaaactgt gcagagatgt aactctgctt tctctaccat 180  
tcactctgat atttgaggac caagtacggt tacatcttct gactttcagt gttttgtgac 240  
cttcattgat gaatagttca gatgtacttg ggtttatgta atgaaag 287

<210> 14472  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 14472

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ttcaaccttt cctcttgagt cttgaactgt tcttgattcc ttcttgatca tcttgaactc 120  
atcctttgat tgacctttga gctttttgtc atcacctttg tcatcatcat tggtatcatc 180  
aaaacatctt tgaatcactc ttgattcacc atgaagctct gcttctacaa agaagataac 240  
acagagaaca aacaaaacat cattacatat atagaaatat atttacatta gataacctaca 300  
gggaagatcc aatagaggat atagctctcc atagtccaga aacctctttt acaacaaaga 360

<210> 14473  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14473

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aggaatcttc tagagggccc aagtgggctt ggttgetatt tgcaccccca tttttactaa 120  
gtacacctcc ttgccttttt tttggtgatt cttttctcgt aaagttacgg aaacttacga 180  
atttcgtaac gatacttggt ttctttccgt aatggtacgg aaccttggtg attacataat 240  
catccccttt ttgacttacg gaatgttacg gaacctcact aatngtgcaa cgatgcttcc 300  
atttgatttt cgggtgtgtca tggaacctta 330

<210> 14474  
<211> 532  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14474

aggacgtgtt tcgacnttct gttannaccc cncnaannnn aannaangcn nccngcggga 60  
nnncannaaa nnaccgccc ggtatgggagc gacgcttcct tttatttttc ntaancanna 120  
cgcacaccga gaacggggag gggctacgac gacangcgac ggagacaccc gcccnnggcag 180  
cgacaaccgg ggggacaaca gaggagccaa ccgagccaga acgacncgga cagacagcca 240  
ccagaaaaca ccgcccggaa gcataaaaac gccggaaaga cgccccacac agccacaggg 300  
caacacgcac aaccaagcaa gacacagcga cagcaggagc caacaaccag ccaaaaagcn 360  
ggcagcacca acgncacacc ggagagacac gaaaccaacc cagagaaaaa cgccccacagg 420

atgaaccacg aaacctctga tcatgagacc aaacttatat gctgacgctg tgactcacia 480  
gaggggttggg ctcaatcgat cacaccacta cctcataggt gagtgtgcac cg 532

<210> 14475  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14475

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aacagaagct ctgagcatat tcaaacgaca ttaactnntt tctcggatgt acgatttgtt 120  
cccttagtat atctagacgc tcgcaattga aaacggaagc tcgtagcaaa ttcaaacgac 180  
aatacacttt aactcagatg tctgactgag tccgttagta tatcgagacg ctcgatattg 240  
aaacataagg tctgagcaaa ttcaaacgac tataactttt tactcggatg tccgattgag 300  
tcccgttaata tatcgagacg ctccaaattg aaatagtagc ttctagcata ttcaaacaac 360  
aataactttt tactccgatg tccgattgag tcccataata tatcgagacg ctccacattg 420  
aaaacat 427

<210> 14476  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 14476

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gacactttta aggacttcct atatgatgaa tcgcatatgc aggggtgacat gcactcgcca 120  
aataattcat ctgcacgaca tgctctgagc ttacttcgtc aactgcaaca catcaatctg 180  
tctaaaacct actcccatac gacagtttgt aagactcaga tcaactctgtg gtgatatgag 240  
agaaatacaa gagaacttta tgctcaatgt gaaagtccac cgctcatgga tacgatgcca 300  
ttgacgtggc tgcatgtgag agacagatag tatataaata atgtctaaga ctctatgaac 360  
atatataggg acacataatc aagtgatcac atgaagagag ggactgaatc tttggcttat 420  
cattaatgg 429

<210> 14477  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14477

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 ttgaagtgga ctgcaaccat atactttant tgtaccccat acctcaaccc tggaccttaa 120  
 tacagcaatg catctctttg aagtaaaata ccctcggctt acttcctcgt cttgagcctc 180  
 catacatttc caccttggtta aagcaccgaa ctaagctccc ccatggatga gcatacgctc 240  
 atcatacagg ctaccccact aactgaagct ttgaccacaa gaactgatac ctttaagctt 300  
 aacattctta cattgtttcg ccaatagact atccttaact gcgtgtttat ctccccttta 360  
 cgaactaatg cctcacgctt ctctctctga ctatcctatg actctctgaa aagctgtgct 420  
 gatgatgcat cacagctgta ctatcaaact tgccctgagga ggttgtagat tctggctcgg 480

<210> 14478  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14478

cagcctccta tttattgtaa tttttgggtg gtgaacctcc ttcttccttg gctaattccc 60  
 tagtggatgg tgccctccct ctctcttctt ccttttcctt ccgctgtatc tcaatggtgt 120  
 aaaatcacca ttaaaggacc ccattgaagc tcanagatcc aacctccata gaagccctac 180  
 aatcaagctt ccatcaagtg gtatcagagc acaagagcct caagtgtcca ggaaaggagc 240  
 ccagagtgtg aagaacctcg ggatttgagg tcaaatacct tccaagggtg agaggatgat 300  
 gcaatcctac cccccaaggg tattggatag aagactccag gaggcttang ctagagctac 360  
 taaagaatgc cctanggttc tcatgaacct tangttagct ntttgagccc atgggtcatn 420  
 ggtggatcca ctc 433

<210> 14479  
 <211> 438  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 14479

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tcctttggcc aaatgaaatt cgccaaggac taaccacctg aattcttttt tgtgtctctc 120
tttccccttt tcccaaagaa caaaggacta accccctgaa ttcttttatg tctctcttct 180
ctcttgtaa aaaattcaaa acaacacagt ctaagaattc ttttgattct tcccatccct 240
aatacaaaag tgtttaaagg actaacggcc tgagaattct tttgtatccc attcaciaag 300
tatcaaaggt ttaacagcct gagatctttg tcttaacaaa tttggacggg acatcctttt 360
tggtacaagt agaggggtaca tctacttggg tttgactgag aacaagagag ggtacatctc 420
ttgtggatca gttctagt 438
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<210> 14480  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14480

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tgnggcaagt ttgtgctttg tttctttgaa ttgaggggtt gtaggggatg gccttangcc 120
taggttatgc tgtgaaataa tggagcaagc cacattgccc ctattccctt attattggca 180
cccaaaagtg cgccaccaa gtgctcagtg aaatgcctca atgacatttg ggcattggtt 240
tgtgaactnt ggattgtggg gctgatttgt gtgtataggg acaacatgt 289
```

<210> 14481  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14481

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tcaattcaat ccctgaataa tttttggata ttgtccaata agaaatgttc gatcggcgtc 60
atcaggatgat gcttgctttt tatttttagac ctgctggatc ggtcatcttt cctggccgac 120
atcgactatc atttntttta tcagtgtcgg tgaataatgt tttttggccg aggtgggctg 180
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atgttttttct agccgagtaa atgagaacac gccagtgtcg gccgaaaca

229

<210> 14482  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14482

ttcttgcttc tacaatcaaa acctacanaa ccatgaatga atctttcata tttaaacaaa 60  
aacattagta aatgtacaat atatataaac caactagatt taagggaagt ttataagaga 120  
actattacaa aagatagata agtgctaaca ttataatcca aaaaataatt gaaatatgac 180  
acttatcaac ttggcaccct attaaggggtg taagtcgtaa gctttaaggc ttctcccaa 240  
agtgactctg gcaaaaaaga atgactaatc atattttctca ccatactttt aagagtttgc 300  
tttcttcgtt cttctacacc attcgtgcta cgttcttcaa acatagcgta tggccaaaca 360  
attccacaca ctgtgagtaa aagcacaaaa agtactgaac gttgttctcc taatttgcac 420  
a 421

<210> 14483  
<211> 240  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14483

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gctatagtga attcttttagt tcttgaatgt acaaccttca aattgttgct cgttcccctc 120  
tntcttttct gcaaaaaaga aaatcaaagc ctgtgaaaac atggatgaag tcctaagaaa 180  
atcaatatca aagaacacat ggatgaaatc acaattaaca agcacaatta cctatctttc 240

<210> 14484  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14484

agctttgang gtttcattct gtatttttct gattgtattg gtacctaagc atttatttta 60

tttctttctg catttatctg ttgggaatat attgatctaa cttgttatta ttntctgttt 120  
gaaagctctt tgagagctct gctctgatgc atatatctgc tgtaaagtct ctctctctg 180  
cattatgtca actttcacat caatgcatga cttcaagcag tttgggacca acaactagtc 240  
aaaaaattgg aagcatcagc ttttcagtgg aaagaatgat atccatcctt gtgaataatg 300  
ctcacagtat gtagcttcaa tacctttgag catgatagca aatcttttat gctggatgct 360  
gttttcttag aatggtgggt tgggcctaac tcaacacca aagctagctc atagggt 417

<210> 14485  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 14485

aagaagaaga aatcaaaaga gagttattat gcttgtgtct tggactctca tattacagtg 60  
acaaagccat tgctgtgatg acgtgaaaac aaaacacgaa ggaaaaggca gaagagagag 120  
aaagagaggt acataacttt tttaattgtg ttttaatctt ggctgttcat ttttctttaa 180  
ttgtgatcta atggctaatzg attaattctc atttctcatt taagaagtgt tttcatttga 240  
aacatccac atatatatag agagagaagg ttgttattca aattaactac gactattgtt 300  
ttttggtag cttttatact ctaacaatta aagtaatgaa ctaatggtag tataaaaatt 360  
tctttgcttg ccatccaatt ttatgataaa act 393

<210> 14486  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14486

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gggatgcccc acattatttc catgacacan atgcaaaaat gatgatttgg aaactntatg 120  
caaaactggg catgcatgcg cctatgcgga cgctcaagtg tcaaattttt atggtcagggt 180  
gatgctaggg ttcaggattc atttctctta ttttaaata acccaatgtt tccaaaatat 240  
gttcttttat caatttgtgc attcctccaa gtccatttcg ggcgtccggn gaaattntta 300

cagcattcac ccttcaggtg tagacacgtn ntttcttcaa aaatcgggta tgatcaatga 360  
 attttttttt caaagaaaag ttggaaatca tctcttttc 399

<210> 14487  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14487

ccccggagta cgacagtcac cgctttatga gcgttgtaca ccagcagcgc ttcgaagcca 60  
 tcaagggatg gtcgtttctc cgggagcgac gcgtccagct canggacgac gagtatactg 120  
 atttcagga ggaaataagg cgccggcggg ggggtaccact gggtactccc atggccaagt 180  
 ttgatccaga aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc 240  
 gtgacatgag atcctgngtt aagggtcagt ggatcccgtt cgatgcc 287

<210> 14488  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14488

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 catgttgggg ttataaaatc ctctttccta aaaatgataa aaaaaatcat gtgaatatgg 120  
 taccacaacgc gtggtctttg aagtgtctcg tgtcgatctc ataaatacac atgtcatgca 180  
 tcgcataact atatcctact cattcatcat atatcctcta tgatagattg tcgaagtatt 240  
 gacaatcaaa atttttattc tttggaacat ggggccgaac caagtgcagt cttttaagat 300  
 aaaggttnta ccaagtcaag gtcaaaaggg aagtagccag cttgcaaaac ttatggaagt 360  
 gaatggagct aatgacttac ataatcaaga aattgtgatg 400

<210> 14489  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14489

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 gttgcaactg acacagtaac caagattgca tttttttacc ccctttctcc ttctccagca 120  
 tcatcaaaca tcacaacaca aacctcaaat gcctactacc accaccactt tttcttgctt 180  
 cctcttcacc ttcctcatca ccacttccac catggcttct atggttggag ctgtgggggt 240  
 gaactggggc accatggctt ctcacccact tccacccac aaggtgggtga agctcttgaa 300  
 gtccaacagc atcaacaaag tcaagctctt tgatgccaac tctgatgttc ttcaggccct 360  
 ttctggctcc aacattgcta gtactgtggg tgttcccaac actttgctca gaagcttgaa 420  
 ctcttctaag aaagctgctg atagctgggt ccatgataat g 461

<210> 14490  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14490

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 ttatgcactt ctctctcttt cgaatttgct tggaaaaatt gtgtccatga agaaaattca 120  
 agccgagccg cttccgaaac gtttccgtaa cgtttccgtg aggaatttcg cgaaagtctc 180  
 gaccgttctt caagattcat cgttcgttct tcgttgtctt cagtcttcaa cgggtaagta 240  
 cctcaaacca agctgttcaa ttcattctat gtacccatgg cgggccacat ttcgcctcat 300  
 gtattnttat tctccgntc atttactttg tatactccct gttgacgtgc ttaagccatt 360  
 tatttaagtc atttctc 377

<210> 14491  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14491

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 ttctatacgt acggggggaga agggatttga taaatgtggg tcacccctt aggcactttc 120  
 tctgcttttt ctgaattcga cttggaaaaa tgttttcccg tgaagaatat ctacagccga 180

agcgctttcg aaacgtttcc gtaacgtatc cgtgaagaat tttgcgaaaag ttacaccgct 240  
ctttcaacgt catcatgctg tcttcatcgt tcttccatct tcaacgggta aagtccttga 300  
accaagcttt tcgattcatt ctattgtccc gtggagggtcc acattgggtt tegtgtatta 360  
ttattcacga tccatttact gtctataccc ccctttgacg tgcttgagcc attctattta 420  
agtcatttct ggcttaacct aaagaataaa tagaattcca ccgatcgttt gaatctgatt 480  
atgccgtaac ttttggtaaa attn 504

<210> 14492  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14492

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tttatctata ttangtagct ttgttagtaa gcttggttcag aagggcagca gtgagttgtc 120  
actgtcactg cccttctctc tccatcttgt actctatata tatgtctttt ttgaaatgaa 180  
taaagggtgtg agagaaagga gggaatttct ccttcagttt caagtaattt taatatgcac 240  
tccaatgatg gctttcaggg gagagttgat ccttgacagg caatatattc aactgggaaa 300  
gcaaattaaa ttataaaaat atatgtattt ttcacagta tattgaagac tgcaatgggt 360  
gaaaattttg aacaaattct agactgcaat gggtgaaaaat tntgaacaaa ttctatcatc 420  
tctgtc 426

<210> 14493  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14493

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aaagctaagc tcacctcctt gagaagctnt attgagaagc tagagcttag ctacacacac 120  
ccctctaata actaagctca cctccttgag aagcttcctc gagaagctag agcttagcta 180  
cacacacctc tctaatagct aagctcacct ccttgagatg agaagctaga gcttagctac 240

acaccccccta taatagccac tgaatgtcgc gcttagcgaa tgctcgctaa gccagcagat 300  
 tggcttagtg agaaggtgag aataacactt ttgccaatnt gcctaattaa cctgagattg 360  
 agagaaatng attattaaac ac 382

<210> 14494  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14494

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 tctatattac tgctcaacca acgtatgaat tcccttaatg acaatcttct taaatattaa 180  
 ttcanatgag acactttgaa tatgaatata atgcactcat agataacgga gaataacgga 240  
 agagaatatg cgcactcagt tctatactgt ttcggccaca cccgtgtgcc tacgtacagt 300  
 cccactaaa cccgctagag agttccacta tcttagaaat gctttgtaca agttctaaac 360  
 acacaaagac aatccttcct tt 382

<210> 14495  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14495

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 atttgatcag atgaccactg accctcacct gcttaagtga cttgtcttct aagtcataga 180  
 ggtttgcgta gaattccttg acaatagcta catcaatact accttcaatg aagcttgtca 240  
 actcctcatc ccattgtttt ctttctaatt cctccttaag atcatcaaaa tcagtgtagt 300  
 atactatagt agaaactctt tcaataatac tc 332

<210> 14496  
 <211> 428

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14496

agcttgagta tgataacgga tttgtttacg ttcataaaca tgactgactg aaatccacta 60  
ttataaaaca aaaaatcaag tgactgctaa attatgacgg tttgtgaagt tgataattac 120  
tagtaaattg tgcaaaaaat caagtgtagt actaacactt aacaagtaac caatgataat 180  
ataataaatg accattgctt gtgtacccaa cttcgtcctt agatgatgat attgtaatca 240  
tagcagctcc cgacaccagc gattgctcta tgcggttctt tgacttctat tccanaacaa 300  
ttctttctctt ttcattntta atgttcatca ctttgtgggt cccaacttct gcacggcaac 360  
aagtcgggta ttttagtctc tgctcctttt tccctctgaa ttcgggtactc tgccatgcat 420  
gaatcata 428

<210> 14497  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14497

tgtcnccat caaagataag acaaagtata aatcatgttc ttctccattc tgctagctat 60  
catgtccaca gaaatccata tatgtcaata gagattgtaa agtaataatc atatcacaat 120  
atcacatgtt atttgctacg gcctacggga aagctcgagc gagcaaactt gcttggtgag 180  
taatgctaac tgtttgttga aaacgcccaa gtaattcatt acatttttac atcacttgac 240  
aaggagtttc ggatcaatgt cttttgtttt gcgtgatagc acggatgcag atcaacttgg 300  
acactacttc aaaaatcaga acgtgaatga taataaccaa ataaataagt ggataaactt 360  
tgcanatgca nggtgttgca aattgcatga agcccaagta ctggacttgg aagtttattg 420  
ttctttctttc atc 433

<210> 14498  
<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 14498

cttaacttcc tcaatggtga ctnagtttgc tagttcatca aacatatttt ggccaatctg 60  
agggatagaa ttcagataaa ggctagatgg atcacaagtt ttagggcatt agaagagctt 120  
cttaaagaac ttcaaggctt tcttcctgag taagtcatca tctgtgact gaattccatc 180  
aatcataaga ctctgatttt tattttcttct ccttctaata accacttgag tatggaaaaa 240  
tttg 244

<210> 14499

<211> 160

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14499

aaatctgata atcatgctgt gatttatgca aaanaaaaaa caactacggc aaatgaagag 60  
ggtgagaata agggagaagc ccatgctgtg actgccattc ctatacagcc aagtttccca 120  
ccaacccaac aatgtcatta ctacagcaat aacaaatctt 160

<210> 14500

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14500

ctaagttttg aaaggctgga atgcaatcaa aggtttcagc acacaagaat tccatatcaa 60  
taaaacttatg gtcgataatg gaacgagatg agaaaagatt ggagtaccgt ttctgctggt 120  
cgtcggaaga aaacactgng gaagaggaca atgaggggtg aattgggtgt gtggatgcgc 180  
tagtggctcc agaacgatga gcccttgaag ccgaagcgga ggcggaagaa ccctttcgtt 240  
tcttgacga ttcttccatt ngagggaagt tttgcagatt ntaatcggtg anatcaaaag 300  
aaaaatgaaa aagaagaaga ttgaattta 329

<210> 14501

<211> 387

<212> DNA

<213> Glycine max

<400> 14501

aagcacattt tattttctttg gagaaacctt ggtctaaaat gtggcaacat aatgttatca 60  
atctaacaaa aaatcctatc atgcattcta ggactaaaca catagaaata atgcatcatt 120  
ttcttagaga tcatgtgtta aaaggtgact gctacattga gttcatagat agtgagcatt 180  
aacttgcaga cattttcact aaaccacttg ctagagatag gttctgtttc attagaaatg 240  
aaataagcat attagatgct tccaacataa aataacttcc tatttgcata atgtgtgatg 300  
cacattgcta tttgagacga tgactaattt attctggagt ctctactcta atcaattacc 360  
aagtagttta atcgattact tctctct 387

<210> 14502

<211> 184

<212> DNA

<213> Glycine max

<400> 14502

tttcgttcaa ggattgaatc gagggctcgt tatgcgacat ctgtcgcgac ataccgaccg 60  
atattcttca gccgacattg cacaattctt tttagaaaag ctcgctggtc gataatggtc 120  
tttttacggc agagtaagtt atcttggttt ggtgttgcac acaaaagtta caatgtactt 180  
cagc 184

<210> 14503

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14503

aaaaattgcg ggtagcggg tctancncta gntacaagtc ncgnncccat nnacataaat 60  
tgggggagaa gtgaagtgat ataaggttca gccccttagg cacttctgtg tctttcgaat 120  
ttgcttagaa aaactgtttc cgtgaagaaa atccaagccg aggcgcttnc gtaacgtttc 180  
cgtgagtgat ttcgcgaagg gtttcgaccg ttcttcgacg ttcttcattc gttcttcac 240  
ggtcttcggg cttcaacggg taagtacctc gaaccaagct tttcgattca ttctatgtac 300  
ccgtggtggg tccacattga tttcgtgttt tttcttctcg gtttcattta ctttccttac 360  
cccttttgac gtgcgttagc cattttatct nagtcatttc tcgcttaacc tataaataaa 420

atagatttgc accgatcggt tgaattgtat tatccgtgga acttcggtaa aatgagttcc 480  
gaccgttcgg tcgtgccata acccn 505

<210> 14504  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 14504

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gatcaagagt tggcaatcgg atgtgttggc attgagggag gaattggata gagtaagagc 120  
ttgatgtgga gctgactctc agacacaaac tactcgaatc tgctgtgtga gctaaaatca 180  
atgtggcatt gcaacaatgg aaaggtgaga aatttgtatg ttttgcctca gaaaacatgt 240  
actttgaatt cccttccaat gtccctatta aggggtgctt tcttattctg gttataattc 300  
caagtgtggg taatcccggt attagagtca tctactactg gtttgatggt tttccatgtg 360  
gtaagtgtac tcttaactta tctatggtaa aaaatgagtt aaatatctgt tttatgcata 420  
aaaatatctg cactatcttg gaatcatctg attttt 456

<210> 14505  
<211> 164  
<212> DNA  
<213> Glycine max

<400> 14505

gtatcctatg tcgtgtggat gattctccag attacctggg taactttata gagagaaatc 60  
gaaacctctg aatatcaaag agttgagtct aaacttcaag agagaaaact gtgtatcaag 120  
agaataggag tgccatggca gaaatttgaa acagcaggtc actg 164

<210> 14506  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14506

gcaccctgc gggcagttta ctatcaatgg agtgactcac aaagccacat tgttgtatga 60

gtatactcac attcggtttt aagaaaatct ttaagatatg attgcattga taaaccattc 120  
atgttcaaga taagctatgt aaacaatata cctgagtggt cagcatggat tgttgagatg 180  
ctagtacatc attatgcata ggttctatat ntaaattgct gccactacgt tgtgaagttg 240  
gtggatctta ctattgttgt tgtcactgac aaaaaatttc tacacatata tgtaagagat 300  
gaaatataac ttttgtaaga gtagtggaat atg 333

<210> 14507  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14507

gttcagccct cctggtaatt cgagatcact tgaaattagt gagaaaaatc atttccgtga 60  
agaaaattca agccgagggc cttccgtaac gttttcgtaa cgttntcgtg ggtgatttcg 120  
cgaagatttt caaccgttct tcgacgttct tcgttcgttc ttcgggtcttc aaccgataag 180  
tttccgaaat ggaacttttc aattcattct atgtaccctt agtgggtcctc atttgtttcg 240  
cgtactttta ttttcatttc atttactttc tgtacccctt tttggcggttc tttagtcatt 300  
tacttaagtc attntctcgc ccaatcaaaa ataaaataaa tttccactga tcatttgaat 360  
tgtacattcg ttaatttctg taaattgaat ctga 394

<210> 14508  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14508

tttctcatgt gttcacttta cccaatctcc gggttcgaag acaaccttct ttcttccttt 60  
gttggttgt ttagcatagc ttttattttt cctctcaatt tgatctttga ctcttacatg 120  
aagcttcttc acatagtcgc cctttgcttg accttcttta tgcttaaaaa cagaaacatt 180  
angcataggc aaaagatcaa gaggagttag tgggttagaa ccataaacia cttcaaaatc 240  
atcaaaagtg gtagtggtca aaatctgatt tttgcaaaac aagatatata gtgactgttt 300  
agcatgaaac aacctcttga cctcactttt tgt 333

<210> 14509  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14509

atgtgccaac tctcgaagat gtggctatat catatagaca gtacacacac gtcaggattc 60  
 attaccttta ttaaaagtgc tgaattttct tagaatttgg gcttagggcc tcactaaact 120  
 catcccacaa aactggcttg taagtngagg gctgcctaag cattataagc actattttaca 180  
 tcatatctct agttaatgtg gagattaaat accaccctt 219

<210> 14510  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14510

aggcaatttt taagttttng ttgcgaanat tatgatacca nncnnnccnc gcangaccca 60  
 annaaccgga tgtgaaaaca aagttttatt tgtttccacg gagnggacan gagagacgtg 120  
 ttgccacttc tgagagaaca caaccacctg aagagtatga gccacatcgc acataaaata 180  
 tctttttgca tatagttttac tcccacttgg gtttgcaatg atagctgata tgaggcagtt 240  
 gaagatttca tattttttctt atatgaacaa attgtctgat aaacaataga taatatctgc 300  
 tactatgtca tcgttgatct tactctcccc tttgttgcat caaaacaaat catgaataga 360  
 gaagacgaaa tgtgcctctt gtgtatagat gaaatagcga tccaaaagat tanaccatct 420  
 cttaatgaat aaatgatcaa tatgtcagca aacaagatgt tccttcatct aacacatc 478

<210> 14511  
 <211> 167  
 <212> DNA  
 <213> Glycine max

<400> 14511

tcttgcgtag cgctctgtgc tagaaaaccc taatctatcc ctctatacta gtatttgaat 60  
 cttagttctg atgtacacct tcaatgtgct cgttccctct tctttctgaa aaagaaatca 120

atgatgcaaa catggagaag cctaagaaat aatatcaaaa aacatga

167

<210> 14512  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14512

accggatgac gccgatcgaa catgtcctaa ccgacgtatt catatttcgt tcanggattg 60

aattgaaagc tcgttatgcg acatctgtcg tgaagtagcg accgatattt ttcagccgac 120

attgcacaat tctttttaga aaagctcgct ggtcgataat ggtcttttta cggcagagta 180

agatttcttg gtttggtggt gcataaaaaa gttacaatgt acttcgggta ggtttttcgt 240

gcgagttcaa ccgacatttt gtttcngcca ggaaaacatt agcccacctc tgcaaaaaaa 300

atatngcta accgtcttca tgcataatnc attcaacgat tgaatagaaa actcaat 357

<210> 14513  
<211> 494  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14513

aggaattggg cttgggggat gcgaacacta gataactcaac cttcacacaa ttatctgtct 60

agacgtgagg gcgcactggc ttagttctat cacaccactg actcgacgag ggacatgaca 120

catgcctgtg tcagtgcccc tgtgatgtcg cgaccaagaa tgatccact cacttctttg 180

aaactcatac ctcaagatct tgaatgaatt gtggatcaca tatggcaata tccaagtatc 240

ttgccgatat gggcaaccgc ctgagtcac agttactttg gacagaaccg gcaccactg 300

aggacatgca ctagctctaa aaagaaagtc tctctatctc ttcagataat cttgtaggat 360

atncaactat acagcctatt atcatttatt ggacatgaag agtggttata ttaccacatc 420

tctcaatcaa tagcctatcc tactcttcaa gaaaccaga nacaggctgc atcgtgaaca 480

cagctgtggt atcn 494

<210> 14514  
<211> 480  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14514

aggggttagg ggttttgcgt aatgtgacac natagantac tcaagcctng cgagggcatc 60  
cccctatatg ttctagaatt cagaangatt gatcctcaaa gcattacaca ctatatattg 120  
catacaacaa atatgcaatt tgaccaacct gtataccatc ttggattgaa aaagaagtac 180  
cttctggagg ttggacaagc ttccggttat gacgagcggc cattttcttc tttaactgtg 240  
tcagtatgtc ctccatggag tactctctgt gccaatgtgc aagaagacca aatgtctttg 300  
ggccaaccta tttctttcag tctataaatc ctggcacaaa gataattagt attaagccca 360  
taaaatagac taaatcttct cataatcatt aacatgaaaa gtgtcgcaag atggaccgat 420  
tcaccccgtc tttgaataaa gtagaaaaaa tattttcatt atgcttccca aaaacccaan 480

<210> 14515

<211> 251

<212> DNA

<213> Glycine max

<400> 14515

gggagagaag ctgaactttg aagtatgtct cacaagactc tcattcatca aagttgagac 60  
aagtattaca catgtttcta tttatagcct aggtcactaa ctaaattgatt gggaatttca 120  
ttttcatttc atgtgaatct aagaggaata ttccaaggat atgccacagg catcttagca 180  
tattccaaga atatgtcaaa ggcattcttag aatattccaa gaatatgtca gaggcattct 240  
accatattct c 251

<210> 14516

<211> 324

<212> DNA

<213> Glycine max

<400> 14516

ttatcttctc aactgagttc gaaggttagt tgaatctttc ctactagatg atgagatgat 60  
gctggttgtg gtagcctata tgcacaacca aaatatctat cttatatcaa cactcatcta 120  
tgaagatgaa gtcatgttaa catatgattt cctattctct tgcatatgga cactcccga 180  
ctacttctta tagacacatc ttactgatca tttgaaccta tccatattga ctaatgctag 240

aagtatgctt atcatcacta aacattctta ttgogttgac tatttcaata ttcttctcca 300  
tatcttactt attgtgctct gcac 324

<210> 14517  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 14517

gattcaagaa tagctgaaaa aaggctggtg actgtccctg aaagatttga cgctactatt 60  
acaaccttgg agaatactaa ggatttgtca aaacttacct tggcataact tgtaaagtct 120  
ttgcaagccc aagagcatag aagaagaatg agggctgatg attctgtgga aagagcattg 180  
catgctaaat tacaatttaa cactgagag aacagcatgt ggaagaaata caagaagaag 240  
aatttcaaca tacaagaagc agcggctaac actagcacca aaagtggaga taac 294

<210> 14518  
<211> 189  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14518

gtcacacgaa gtccgattca ggtgcataat ataccgagac gtcgaaatt gaacaacgga 60  
agctctcgag aaattcaaatt ggtcataact tatcacacgg aagtccgatt caggagcata 120  
atatatcgag aagcttgaaa ttgaacaaca gaagctctcg agaaattcan atggtcataa 180  
cttgtcaca 189

<210> 14519  
<211> 275  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14519

taagaacccc atcgtcttct tcgatgtcac catcggtaac attcccgcgc gtcgaatcaa 60  
gatggaactc tntgccgata ttgccccaaa aaccgccgag aatttcaggt atctatgctt 120  
ctagtgttaa agcgtttctt cttttagtgc tagtttagagt gcccttggc ttttaagcatt 180



gctatcaact tgtgattgaa cttctacgaa aaatcactan ttnttgtttt agtctacaga 240  
agtttactca ttttaattgc aaaagtgcag attta 275

<210> 14520  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 14520

acttatctcc gactgaagac cgcattgtttt tggttggtccc aagtttattg cgggctgtag 60  
caccggttcc gcttccttag ctgtattgga ggcggccacc gtggcattat cttctatagt 120  
tctctgaagc tctagcatgg cctccgtgat agaagccatt tgatcttcta atgccgatag 180  
gttggccttc atctgttctt gcactccctc ttcattatcc atttttctgg atcaagtgtt 240  
atatgggtgc ctttgccctc cttattatgg agagt 275

<210> 14521  
<211> 159  
<212> DNA  
<213> Glycine max

<400> 14521

gggctacgtg ggagtacgtg agctcagttg gatgtgggca acaagggatg gtgggtttat 60  
gcgcgatttg tggatgtgga aaacttgttg tgcaccatcg cccgaccgcc acctagtacc 120  
acatgtgatg ggtaccccat aatcctacaa gcttgagat 159

<210> 14522  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 14522

agatgtatca cacaatcaaa taaaggggct actcccagat tggttgagac cctaaaacac 60  
ttacttgttc ttgatttaag cagcaataaa ttgtcaagga agattcctat gtccatgggc 120  
gcccttggtta atatggaagc cttgggttttt aaaaacaatg gtttaatggg tgagttgcct 180  
tcttctttga agaattgcag cacgttatct atgctggacc tgagtgaata tattgtagcc 240  
cggccaatac catcattgat aggacaacgt ctgcagcaat tgataatctt tgacatgcga 300

ggaaatcacc tttcatgata tatacccatt catctttgta tttgaaccga 350

<210> 14523  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14523

ngggcgccctt tagcatgant ntgcgacact ttagntactc aagctnctca gccaaactggt 60  
ttcctcacta acagtggcta gtgctattat ctcaaattcc atagcggact gaggtaagat 120  
agtcttggtc tttgactttc caagaaacaa gcccaccaa ctatgcctaa atatataggt 180  
tgctggtntg cctttggaat caatctgaaa gagtggtcca atctgcatca ttgtatcctt 240  
caagtacaac gggaaacctt ttataatgta atccaagggt tatgggttctt ttaagggtacc 300  
tcattaccct ttcaatagcg tgtcagtgct ccatactang tctacttgggt aacctgcata 360  
ataatcctac cacataggct atggcggatc tagtacaatc agtggcatac ctatggctgt 420  
caatgatact tgtgtactca gtttggtcga tacccttcac cagtgtctta aaccagggtta 480  
cacttggaaat catatgg 497

<210> 14524  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14524

aggcggatgat gttgnncctt ttgccttacg tagaactata ganattaaag catgcacccg 60  
aggaggggaag tgatatttgc agctaataaa ccttttttta tctatttgct cttagatnaa 120  
ctgtttcttt tcttatatgn aaatataaat aatataaggc tatgccataa agacacagtc 180  
atttttaccc ctaacanatc ttagaagtaa atatagacca tgtttttacg gaataccctt 240  
tacaoagata gtggaaatct caagtgggtt gcttgagtac tggacgtang cacgggttgt 300  
ggccgaacca atataaaact gtgtttgcat tcctcttccc tatctcatta tggtatgcaa 360  
tcattttgcc ttgcttggtta tagaacatat tataatgatt ggtgtgggtc tctgcatcta 420  
agctatccct ctaaaatatt ggattccact atcttgtaaa atcatacaaa gttgaccacc 480

aggacaccct n 491

<210> 14525  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 14525

tctgtacctg tgcgaagggt ctgtggtttg agtcctctg tggaccacca tacagacctt 60  
tgcgcttcca tgcagcaagc tagagcaatt gatcggcctg aagcttatgc tgcagatata 120  
tacgatagac ctctcacct gggagcaaatt aaaccacagc atgacaatta tgacctctgc 180  
agcggcagat ataaccctgg atggaagaga tagcctaacc ttacatgggt catccctcaa 240  
caacaacaac a 251

<210> 14526  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14526

ccaaagcaca gcttcaaatt tgggcacttt agatgtatca cacaatcaaa taaaggggca 60  
actccagat tgttggaat cagtaaagca attactgttt cttgatttaa gcagcaataa 120  
attgtcaggg aagattccta tgtccatggg cgcccttggt aatatggaag ccttggtttt 180  
aagaaacaat ggtttaatgg gtgagttgcc ttcttctttg aagaatgcag cagtttattt 240  
atgctggacc tgagtgaata tatgttgtcn ggtccaatac catcatggat tggacanagt 300  
atgcagcaat tgataatctt gaacatgcga ggaaatcacc tctcangata tctaccatt 360  
catctcntgt attt 374

<210> 14527  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14527

tgaaggtagc accgtatctt cctatctggg agtcgatcat gcctcaccca acaacagatg 60

aagccactca agtaatgaca gtggaagaag ggtctcanag ctgaaccttg accatctacc 120  
aatctagctt ggacagaana tttgacatag atcgatgaga cgacacctcc aataatgctt 180  
gaaacccatt taagagcttg tccaactgta actcggacca aaattggggc agtgcacgcg 240  
gcttagcang gacctcacca ttcatgagca ttgacgcatt gccgatgtgc tatgcagaaa 300  
tgcggatcta tttacctgac aaacatctga catgc 335

<210> 14528  
<211> 216  
<212> DNA  
<213> Glycine max

<400> 14528

tgtccgagca gttaagcaag accgtagacc agtacttgat tatctaagct tggcagcgac 60  
tcataagcaa aggctatagg acgagtacac caaggatatca atcctacaag cagaaaggga 120  
agcaagggaaggagggtgatcg attcattgca cagagaagca atgatgtgga tggacagggtt 180  
cacctttact ttgaatggga gtcaagagct tccccg 216

<210> 14529  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14529

agggaaatattc ttgtagacnn cncntncata gaaactaagc ctgagaaggc agncaggtac 60  
gaggaagggtt tttttctcta aagtactata gagaagggtat gtaccaaacc taactgtgac 120  
ctataacact tatgatgggtt tttataattg acagaaatta acctaacctg ttttaattat 180  
ggacaattta tctaaatata gccaaagggtt attatataaa cactattcat acccgttctg 240  
aattgagagg agtggattaa ctgtctgaat gtgcatctga gactcatgat atataaaatg 300  
ttttataact cttccacctt ttatgagctg ggctaagtag cttaaataagg gaaataactct 360  
tcgaaacccc taaattgttg gaaatgggct ttctggaagg cg 402

<210> 14530  
<211> 488  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14530

agcttctgcc atgatcccc tagataccac tctcagcaag cttcccgtat atcacttggg 60  
aagataatta cttggattca tcaagtgatt cagaaaatga aattgcanat ctaagcctca 120  
tggccaaaga ctatgaaacc cgaagaagag gtgacatctt ctaactatga tttatctatt 180  
tcttttgatg aacttcaaga tgcattccat gattngcata aagaatctat caaacttgcc 240  
aaattagttt catttctaag ataaccggtt canattttaga aaaagaaatt ttgaaattaa 300  
atgtagagtt agaaaatctt caatctcgag ttaaaacatt aaaatcaata gataaaaacc 360  
aaccttctac aaaatgctta atacaagaaa acaatgaagc atctcattca tgtgaatgcg 420  
ctgtataaat tnanagaaga aantgttnnat ttaaaaaatg ctcttgcaaa tttactcttt 480  
gtaaaaan 488

<210> 14531

<211> 269

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14531

tttgcccgtt gaaatcttct ggacgaagca aatgttgaac acaaactctt agaaagatat 60  
tgagaaattg gttgttctaa attcatgccg tgatcacata tntatagcca tttgatggct 120  
cctgaagann ncntgttaaa agttgtgact tttggcaatt tcttcaaaac caatctatta 180  
ctttaaaaag gtgggacttg acaattatctt caaaaccagn caccttaaaa gttgtgactc 240  
ttgacaattt cttcaaaaca ctactgggt 269

<210> 14532

<211> 254

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14532

tcagcagcag cctatctatc catagtagtg atggnggctt tgatcagaga ttaaacttat 60  
tcacactgaa gcgcaataca cacgtagtga tcatgagcta caccatgaac agatcatcat 120

tctatcggga aaaatccaag tctcacattg tctagagatg aaactaaaac taaacttatc 180  
 agtgcgggaa aaccctcacc ctatgagctt gccttagggc ttagttatgc cccaactaga 240  
 caacccta at ggac 254

<210> 14533  
 <211> 170  
 <212> DNA  
 <213> Glycine max

<400> 14533

ccccta atga gogatgacat tatgccgcgt ttacaacgtc tgatggaaaa cctgcgttcc 60  
 cacttatcgc ttgcacacat ccctttccca ctgcgtatac gaagagcccc accgacgcct 120  
 tccacagtgc cacctgatgg caaggccctg agcggatttc tactaccatc 170

<210> 14534  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14534

ccagctcgcc caggcaagct aagttgcttc ctttttgaac ttcttggaag gcctaagtgg 60  
 gcctggttgc tatttgcacc ccctgtttac taaatacacc ccctgccatt tttgctgatt 120  
 ctttttctgt aatgttatgg aactttacga attccgtaac gatacttggt ttctttccgt 180  
 aatgttacgg aaccttacgg attatgtaat catccccctt ttggctttcg gcatgtcaca 240  
 gaacttcacg gattgcctaa cgatgggtgc caagtacctc gaagcagtca agcaaagggt 300  
 gcatgccatc aaacaatggg cccagatga aatanggtat gacagttgcc cctctttact 360  
 taccttttat cggagatagg angaaagcaa agttaaacac tgattcgttc gtttacctct 420  
 ttcgaatcat ctat 434

<210> 14535  
 <211> 196  
 <212> DNA  
 <213> Glycine max

<400> 14535

acacttatgt tcataaaaac atagtgatct tagcattcac aatcacttat gacaccaatc 60  
 taagcatgat aaaagttaaa ataaactatg agcacacatg tgtaacaccc tggcaaataa 120  
 ttacaactca tattggtaga ggacactttg cgttatatca tctcgacatg tgtgtactta 180  
 atggcagaga atatat 196

<210> 14536  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14536

nggggtgtcaa gctangagga cncacncntn ngntannaaa cnnggcgccc catcnccgac 60  
 ggaagacaga ggagcagnag antttgcctt tctcnagagc gcgcctgcac acgcgggtct 120  
 gcttccctaa ctgtattgga cgcagccacc gaggcataat cttctatagt ttggtgaagc 180  
 tcaagcatgg gctccgtgat aaaagccatt cgatctttgt aggccgaccg gtatgcctac 240  
 aactgttcct gcactgctct tcgttataca tttgcctgga acaagtgata taaggagacc 300  
 ctttcgactc acttagggat cgagagtccc ctaagcaacc accaatgggtg agtatgccac 360  
 acaaacatga atctcgcgaa gaatgagcga agccttcgga tccactcacg gcacttttat 420  
 agagaagagg acgaaggcta aaacctatcg ttgattaaag agaacaagct tttttcaacc 480  
 aagacataaa at 492

<210> 14537  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <400> 14537

atgcatgcac ctatgtggca ctcaagtgtca aattttatgg tcatgtgatg ctaagggtca 60  
 agattcattt cctctatttt aaatcaaccc aatgtttcca aaatatgttc ttttatccat 120  
 ttgtgcattc atccgaatcc atttcgggcg ttcgggataa ttttcacaac ggtcaccctt 180  
 caagtgtata cacacttttt ttttcaaaat tggttatgaa ttttttcaaa gaaaagttgg 240  
 aagtcatctc ttttcaaaag catgttggtt ttt 273

<210> 14538  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14538

ctcctctaata gactatggca tcatttctgg cgctaaactg ttgggagttg gaagccatct 60  
 tctcaattaa atntctggct tcagcaggag tcatgtctcc aaaggctcca ccaactggcaa 120  
 catctatcat acttctctcc atattactga gtccttcata aaaatattgg agaagaggct 180  
 attctgaaat ctgatggtgg gggcaactgg cacataattt cttaaattct tcccagtact 240  
 catacaggct ctctccactg agttgtctaa tacctgagat atccttcccg atggttgtgg 300  
 tccctgaagc aagaaatttt ttttctaaga atactctctt aaggtcattc caactcgtga 360  
 t 361

<210> 14539  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14539

gataaaaggg atgccccaca ttatttccat gacacaaatg caaaaatgat gatttggaaa 60  
 ttttatgcaa aactgggttat gcatgcacct atgcggacgc tcaagtgtnc aaatttatgg 120  
 tcatgtgatg ctagggtctca agattcattt cctctatttt aaatcaaccc aatgtttcca 180  
 aaatatgttc ttttatcgat ttgtgcattc ctccaagtcc acttcggggcg tccggggaaa 240  
 ttttcacagc attcaccctt cagatgtaga cacttttttt ttccaaaaa ctagctatga 300

<210> 14540  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 14540

aagtaacaag ttggcaaaga agcaaaccga atcgacaagc aaagtacata aattctgtag 60  
 aagcgagctt catgatgaat caagattgat tcaaagaagt tctgatgata acaaagctga 120  
 tgacaaaaag ctcaaaggtc aagaacactt catgataaca aagatgatga tctccagaat 180



caaagaatga gttcaagatt gaatcaagaa cacttcaagg ttcaagagga aatttgattt 240  
 caagaatcaa gaatcaagtt tcaagattca agt 273

<210> 14541  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 14541

ctccatgaga ggcgggatca catggagaat atatatcata atgaagaaga aaggaggaga 60  
 agagggaatg atcgtgttcc tatacaaaac cgaattgatg gtattaaact caacattcct 120  
 ccatttatag gaaagaatga tccggaggcc tacttggagt gtgagatgaa aatagagcat 180  
 gtcttctcat gcaacaacta tgatgaggac cacaatgtga agcttgccgc cacggagatt 240  
 tcccactata ctcttgtgtg gggaaca 267

<210> 14542  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14542

tataaggaaa ttgacgggta tcttctaaaa agaaggtttt aagaagagtg aaaatgaagt 60  
 cactttgtat gtgaagtgat aaaaaaatga agtgcaactc attgggttctt tatatgttga 120  
 tgatttattn tttatatata gggatatcaa ttccttaaac caaatcaaga atgatatata 180  
 tgaagaaatt tgaaattata gatttggcaa aaatgaaatt tggaatggag aatctcacta 240  
 ctagaaaatg gcgttntacg acacagacac tacgacgatt atggggggaac cgccttaaaa 300  
 agatgtgcgg tggctttttg taattatttg acaatattag gatttacgat ttaaatta 358

<210> 14543  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14543

tatgtggcag ggcgggctta cttcaccttc ttgtttcttc tcgaactttg accattgttc 60

ttccttccccg cgatgcttct tttcatgtct gcctgagtgg gcttatagcc tanaccatac 120  
 ttccccacgat taccttgngt atttatcagt ctagttatgc cgccgttggt ttttcctaaa 180  
 cccatccccg gctcataacc gttccccaac ataactc 217

<210> 14544  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14544

atcttcttca tcaatggagt ccgttgcttt ttgtatatca atgacagtgg aatgcagaag 60  
 gaggaaaggt gattggagat gccacttcaa ggagaagaga gtcaagaaca agttcaccac 120  
 cataggaagc catggataag agcttgaagg ttggagaaga tgagtggagg gagagggaga 180  
 gaatgggcac gaaatttatg cctcgaatga ggtctaaaat ttgaagtgtata atttctcana 240  
 tgatcaaagt agaaataatg cacacaacag gcctctatct atagcctaag tgtcacatga 300  
 aattggaggg aaatttgaat tttattcaaa tttcacttga atttaaattt gtggagctaa 360  
 atttggagcc taaagttcac taattatgaa tagtgaaatt tanctatggt t 411

<210> 14545  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <400> 14545

agatggacca tttcaagtgc ttgaaagaat tatgacaatt cttacaaagt aagctacccg 60  
 gtgagtataa tgttagttcc acctttcatg tctctaactt atctcttttt gatgcagatg 120  
 gagaatccga tttgggacca atccttctca agagggagag aatgatgacg aaatgaccaa 180  
 gagcaagggc aaggatccac ttgaaagact tggacgacct atgacaaggg ttagagcaag 240  
 gaaagccaag gaagctcttc aacaagtgtt ggccatacta tttgaata 288

<210> 14546  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 14546

attctacatc gatgagatcg atgcaaagac tatcactcgc agctagtcgt tcaactcacia 60  
tgtaagatca tactctcacc gcgtctggaa caagctgttc tttctcaata aatgtgtcta 120  
ttgactaacc attctaattg cagacttaca tacttgctct ttctttgtgc aacacacata 180  
cttgctcaga ctcatgaaga gaaacataga ctgcatcata atcatg 226

<210> 14547

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14547

cccaaacacc ttgaccacga atctcttctc ttaatgcttt gttccaatcc tcgacctcaa 60  
agcaatatctt atatgttaat tctttttgtg gaccttgggc tcataactta agaggatggc 120  
ttagangcag aagaagcaca atcaattaat agtgtcttta aataagatag ggaagagaga 180  
atgctatata gtttatactg ttcgacacaa cccgtgccta ctgagtacta agcaccatt 240  
gagattttat attttgaaaa atcattacaa ctctgaccac acagacaacc atccttggtc 300  
aagaatctac actc 314

<210> 14548

<211> 146

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14548

tcaaagtctg acaagagtat gatgaactaa gggacgtcca tatggccacc gctgaagcct 60  
tggaacgaga aaccaagaag gcccgaaagg aagaacacgt gccagcaaag ttntgagggg 120  
ctttatacgg cagcaatagt aagctc 146

<210> 14549

<211> 277

<212> DNA

<213> Glycine max

<400> 14549

gctataactc ttccatggtg tttgttgacc acacatgtat attctataaa agcaaaacct 60  
 tgactggcat ttcaataact ttttagaaca acttcttaga atttcttgaa caacttttga 120  
 gaaatcttga cacattggct acttatcttt cttcttcttc ctttgccaaa agctgtctaa 180  
 gttttctggt ttacaaacct tattctttca cataaaacaa aagcgtgata tatctctata 240  
 ttctctgctc cctttgccga atagaatgga ccacgac 277

<210> 14550  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 14550

tccactgtcg ctgatccgca gagtgttcaa gtcaaccaag catgtggttg cagccccatt 60  
 ccatggctca atgaaggtag tgattgcgca ttctcttgct ctatagttaa aggggaatcaa 120  
 ctattgataa tggattcgga gggtacaggt catatttgca catccattga ct 172

<210> 14551  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14551

cccagattat taacactnat actcttgatt cacaaacaca aagttgacat gatgccaatt 60  
 caaacctana gaaggacacc actaacgcaa tacatcaact tttctaacaa gaagaaactt 120  
 gcatagaaat atgtcatcaa attcacactc aatatatcac tgtgattctt tctggatatg 180  
 aaagctcatt ctttattttt atgaaaattg tataatat 218

<210> 14552  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14552

agttgacgtt tatgtggcct gccaggagac cagtcttctt cctctagagg ggggtggggcc 60  
 tccacaaccc aggagcctgt gactaaagag cctgcagcag aggaagagac cactccagct 120

cagactcctc agccatctcc accatctgaa cctgctcctg acgagactca accatcatca 180  
gcactggatc ttaatgaaga ccagccacag gaggagcann gacgtttaat tttttttttt 240  
gcattatgaa cacttttagt ttatttcagt tattttatgc tttatgtcat ttaaantntca 300  
gctttttatat ttcagtaaca tagttgtttg tttgcttgaa caaaaagctt gatngaacag 360  
tgaattgatt gacattgcat g 381

<210> 14553  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14553

ctctcttggt caaaagattt tggacatggt ctatgggtctt canacctttg ttggtgaaaag 60  
gtttgatact ttgtagttac aagtggacat gtgattcaat gagatggagt caacgatcat 120  
caaggttgaa gaagatgttt cttacattcg tacaagcttt gatctaccac caccaccgcc 180  
accatcatct taggtgtcta ttatgtntaa taatattagt actttgaatt ctaaccgggg 240  
atttggttat attattatga cagttgaaca atttaatat tcttttattt gcatagtatg 300  
attgaacaat tatgaattat gttatatgac tatgaggggtt ttatatat 348

<210> 14554  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14554

ttctagccaa atggacttac cttgaattaa ttcccttttat tttccttttg agccttggtt 60  
ccctttcctt gttttgaagc tcgctacaag ccttaagtga aaaaccatga tattaccata 120  
tccttaaaga attttggagc tttggaattg ttttgggaat aagtgtcggg ggtttttggt 180  
tcattggaca acttggtttg ttggctatgc ttcatgatgt attttgggcc atacttgatg 240  
tacattgtat attggttaaa tgttggacat gctgaatgaa atgttgtttc tcaaaggcta 300  
aagagtcaaa aaaaattcga aaaaagaaaa agaaaagcaa taaagttgag tgaataagat 360  
cttaaatggc acaagaatga tgaaactctt nggtctactc ttcatt 405

<210> 14555  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14555

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nnnnntttcc cgggttcagn acgtacngnc nnntcactat agaaacccca agcttgctta 60
aggcgtagga ccttataacg agtttttagtt attttttgct gacanagctt gatttgcgag 120
tggattctag ctctagtttc acttacgtaa ttagtcaatt cattcaacga aacttccaaa 180
gacaaacgtc cgattgattt ttgcatatt tattcaaaga attgtgatta atttatatta 240
tctttaagaa attngattat ggtatattat ttatggaaaa gtacgaaagc ttgcggaagc 300
atatatgact tcattntctt tcttttactc ttccctttca gcactatcaa gtgatatatg 360
cttaccacac gttntcngan natntacgga aacattacgg aagtcccga agcccagagaa 420
gccatttttc acaaaacatg ggacgaggtg ctgcgcagtc gcccaaaaag ctaagttggt 480
tcaccttaac aagg 494
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<210> 14556  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14556

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agctaccttg gnttatactc tgcccagcct tcgttaaccg ttggatcttc tcaaaacttg 60
gtttgctact ttaaaagaca cttgtccatg atctgacagt tgggatcttt gagaagatgt 120
ttggagtctt agaagcttcc gttcccgaga gcactcttta tttaaacatt ttagcctttg 180
ctttcgtgta gttgaggaaa aacgtcattt cttcttcttt ctttcttcca aagccatttc 240
taaagttccg agaactttct ccatcacaca cagcctccat tagccaccac aaaccatcat 300
tgttctccat tgaaaaccca caccgagagg aacccttcaa ccgaagcgga atcttccaac 360
ttg 363
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<210> 14557  
 <211> 392  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14557

agcttagtct tgttcaacct accatcctta gactgatggc caaactgaat ggaccattca 60  
gttgttggag gatcttttga gagcgtgtgt cttagagcaa aagggaagtt gggagagttt 120  
tctgccattg atagagttca cttataacaa tagttttcac tctacgattg gcatggctcc 180  
ctatgaagct ctgtatggta gaaggtgtag gacacctgtc ataccctaatt ttcgttcggg 240  
gaccagctgt ttgttgggat gcgaccctcg tttgaccact tcgaggtact tggcacccat 300  
cgttaggcaa ttcgtgaagt tctgtgacat gccggaagtc aaaagatagc atntgtgcac 360  
aattcgtgaa gttccgtgat gtgccggaag tc 392

<210> 14558

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14558

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tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatatcacc 120  
atataccttaa ggaatttttg agctttggaa' ttgttttggg aataagtgtg ggggtttttg 180  
tttcattgga taacatgttt tgttggccat gcttcatgat atattttgag ccatacttga 240  
tgtacattgc atattgggta aatgttggac atgctgaata tgatgttggt tctcaaaggc 300  
tacagaaaaa aaaattataa aaaaaaaatc gaaaaagaaa aagaaaagca gtaaagttga 360  
gtgaataaga tcttanatga canaagaatg atgagactca tggttctact ctttat 416

<210> 14559

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14559

agctggngtg ggtataggca aaagcatcgg cggatcaagg agaatgggct tctttcacgg 60  
atgtcttggc atcattgata ttccggagtca tcctttttcc agatgtggat gggctagtat 120

acctagcggc gatggatgcc ttccttgctt atcaccatag caaggaaagt ccgatcgctg 180  
ctatgttggc tgctgtctat gacacgttcg accgaagatg cgaatagagc aacgcgataa 240  
ttgtctgtgg aacacctgct ctctatgtgt ggctagcctc acacctctat tgccatgaaa 300  
gtaaaccat ctgtccctg caaggtcacc gcatttgcg cg 342

<210> 14560  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 14560

gtatgaaatc cactcgacaa ggtttgaagt agaagagaac cttcatccta taacgcaacg 60  
tggcggacaa aaatgggtag ttaacttgaa tgaccattat tgtcaatgcg gaaggatttc 120  
tgcgcttcac tatccatgtt cacacattat tgcagcttgt ggttacgtga tcatgaacta 180  
ctaccaatat atagatattg ttacaccaa tgaacacatc ttataagcat actccgcaca 240  
gtggtggcct cttgggaatg aagcggcaat tccttcttct gatgtggcat ggacactaat 300  
ccctgaccca actacaattc gtgcgaaagg tcggccaaaa tcaa 344

<210> 14561  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14561

agggannatn nnnncttttg ttcgtacacg tcgagttcga gctcagcccg cggcgatgcg 60  
atacagtcga gctgaccgcg tggcaggcaa gcttgctttt aatctgcctt acctgaacga 120  
aggagtggat atttacctta ttgatttagc tccacatcta aactagcgc aaggataaaa 180  
gctaattggg gtcctggaga tgtctatacc ctcaggagag ggcgcactta acaatatttg 240  
tcactctaac acatttaact ctacatatga ataattgtag agcataaggt ggaggactac 300  
tgtcttactg tgattaacat ctgtgaccga cgggtagagt gatcaaact catacgccat 360  
tacgagcact aggatccaag acttgctgaa gaccagactg tgagacgcgc acccgagaa 420  
agaattcacg catttgaaag tccgtgagac cagaatctaa acgactgtaa tgtctattag 480



gaagaan

487

<210> 14562  
<211> 167  
<212> DNA  
<213> Glycine max

<400> 14562

agcttcattc gcacattctc tctcgtaaga cgaggcgcag actaaacagc attattgtaa 60  
caacataaga aaaaccaaga ctgagtgcgc agatccctct tgtaagacta aagagcgatc 120  
ctacttcgat caagttcgaa tgcaacagta catttcccaa tgctaaa 167

<210> 14563  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 14563

agcgtgcctt ccagctcacc caggcgagca acggggcttc ctccataagc aacagccttc 60  
tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgcaccc cttgtatac 120  
taaatgcact cctccttttc tatttatttg taattctttt tccgtaacgt tacgaaactt 180  
tacgaatttc tgaacgataa ttattttcct tccgcaagga tacgaatcct tacggattat 240  
gtatttactc ttt 253

<210> 14564  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14564

agcttttata gtgatgtttg tannnganch ccnactcaca agcaaaagag acatagagga 60  
acgaagacaa ataaaagaaa gaaataagga atagagggag gctcttgac gtttatatcc 120  
acctctcttt tattaatatag ttttgttggt tacacccagt tcctctaaac acctcccctt 180  
ctatatccaa agtttacaaa taaagtccaa cactttcaca acctacactt taagccctac 240  
aactntatgg aaactatcaa caatactatg gcgattaata aancataacg attgttatta 300  
aaattttcat a 311

<210> 14565  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14565

agtttctttg ttatatcttc gatcggacat ctgccaggc cgaggctgac cgtcattatt 60  
 ttgatccat tacgngaata aatatttttt tgccgagatg ggctaataa ttcttgccg 120  
 aataaatggg aaaatgccag tgtcggccga aacgaaaagt cggctgagct cgcacaaaaa 180  
 aacctagccg acctacattt taaatttttc atgcaacccc aaaacaagaa aacttcctgt 240  
 gccgtataaa aaaaaaaaaa acattacatg acagc 275

<210> 14566  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14566

nacgtttgtt tcttgacttg anacnagnac nggaggctcag cgacgcaggg gcgggagct 60  
 ttgttttcna ttctctcagg gaccagcggg cgatgagggtg cagtgtctnca cactctatac 120  
 tccatgtata atggtctcat gatcgcgtct ccacggcat ccaagtaagc aactggcttg 180  
 agtcgcggta gtttttcgaa tcattatcct tacggtagat aattgataga caatttttca 240  
 catatctggt cacatcggcg tcttaggtcg aggttgaaca ctagggcggc gcgcgattaa 300  
 ggaccccatg gggcatgcct gtagacggaa acccctttac tggttaatac taagaacgac 360  
 tggccaccgc cttgctagtg gtcagccact gcaagtgtaa ttctggagac gctcgaccgg 420  
 ccttcagcgg tccg 434

<210> 14567  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14567

nggaagttag tttcattgat gctctttgna nanacncnnn gaacccgagg ancgnacaca 60  
 gggaacccgc agagagcgac cgcgaagcgt gcttttttna ttcgcaangg acngaccagg 120  
 gagcgagcgc ggaagaaacc gaacngacca ggaaaccacg aaacggcang gaggcaacaa 180  
 gaggccaaagg gngaaacacc gcggnaccac canagcgccg aagaaggagg gagcgacgag 240  
 aaagcgcagg gaaaagagag ggggggacgc aangaccaag agagacgaag aacgacggcc 300  
 aggcacaaca aaaggcgccg gaccagacgc agagacacga ggaaagggga aaaagccggc 360  
 cacgccggca gagggagnng ccaaaggcga cgaggcgacc caccacaaca aagaccacc 420  
 cccgcacaac aacagagcaa ccgcaccgng ccgaaaggac agaaaccccc gcaaggcgca 480  
 gcccggn 487

<210> 14568  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14568

agctttttatc tcttgtgctt gtgcctacat tngttctttt gtgcattttt ctgcctgtgc 60  
 ttttaagttat cttctgcac ctttttgctc tcatcttgca tttccatcac aatccaagta 120  
 agcttcttgc tttattttca ttttcttttc gaaacttaaa ccttagggta gataatttat 180  
 tgcttttttag tttacatttc tgtttagctt tagtgttttt aggttttagg ttcacaatat 240  
 agggtttagg taagatttta gagccccata agggcaatgc ctgtaagagg gagaagcccc 300  
 tcatttctgc tagaaatcgc gatgaacgtg ctaagcacac cagctatgct tagttggttc 360  
 atcgcaactg acanaatttt agatttctcg atgatcgc 398

<210> 14569  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <400> 14569

cgctgaacaa aacatacatg gaactggtgt aggtattaat gtctacatga gtctgaaagc 60  
 agcacatcat caaaacaaca ttctgctcgc tctgaaagaa agacatatgg acctgatgaa 120  
 acgtgaaaac aaacatgcta ttagattggt gattcaatca caccataatt tacaacttgg 180

tttattttttt aggagagaag agtaacgtaa aaaaaaagaa gaagttaatg aacctgagat 240  
 tttcctttga cacgagtggc tatgatggag aggccttgca gccattcctc acgggttgaag 300  
 tgtccatctg caaagaagcc attcccatca tt 332

<210> 14570  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14570

agctngtgtg ttatttgtgt ttgcaagtaa atgatgaatg agcgagcgca tagcacaatg 60  
 aatntaagat gaaacgacgt agttggcagt gaggcaggag gagtttatgg ttttagcatt 120  
 gttgttcttg agttgtgttg aatctggaga gagagatgaa taattgtata gcaaagagac 180  
 gtgagaatgc gaggagcagt agagaggaag atcaactgat agtgactcca ttaggcgctg 240  
 gaaatgaagt tgagtcttgt tcgattgtgg aatacaccog gcttactctg gcatggctgc 300  
 tttgccctat ttcgacgaga ttgacccttc catagtcaat gttcttctca tcactcactt 360  
 tcacttgcat catgctgctt ccttgcccta ttttctc 397

<210> 14571  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14571

agcttcattt attttacata tttcttcacc aaaaaaatc tttaccataa aaaagtaact 60  
 tatttgatta attaataaat ttcaaattt aaatcaaaaa atacaaaaca aaaaagtgtg 120  
 taataatttt ttcgaaagca tgccacattt ttatttaatg tttttaaaga accccccttg 180  
 gtactagtac tgcttcacct tggcttttcc tcggaaataa taggaaaata tttgggttaa 240  
 ttgggtttttt tcttctcaaa tttgatcttt tattataaaa aaacgtagac aaaaaagtta 300  
 aaataagctn tgtttcattt aatactaaaa tatttatgac atanaaatat ataattattat 360  
 ntaattattca aaaaatgaat atgtntatta aaaatggata tcatgattac aaaga 415

<210> 14572  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14572

agctnagatt cttctattac ttccatacat nggctntgaa caccatgagg aaattcgcac 60  
 aanacactga attggtgaga cacaaagtta caagatttgc taccactttc ttaactntgc 120  
 aaagattgca taagcaaaag gccaatctta gaaggatggt tacttcggat gaatgggtga 180  
 agtctaagga agctaaagag tctaagggga agcaagcaac aaatggtgtt cttatgccat 240  
 cattttggaa tgatgttgtc tacattttaa aggctatang gcctcttgta agtgtgttga 300  
 ggttggtgga ataatgaaaa aacctgcaat gggtttcatt tatgaagcaa tgga 354

<210> 14573  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 14573

cgaccgcgca ggcaggcaag cttggttatc cagcgactaa accccaacga gcgccgggca 60  
 gtgatggaaa tcttgacacc cacctgcgaa cagattgtcg aggggaacac accagacggg 120  
 ccaaactgga aaccacaagc cacagtgcct gatgatggct gccgacacat tcaaccaacg 180  
 gcccgtgacc acgaggattc tcacggacct cgatatgtca caag 224

<210> 14574  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 14574

agctttattc tcattgtctc tcacagtctt tagattttgg gagccaatcc aatccttgtg 60  
 ttctggactct cagccactta tgatagccgc cgatgatccc attactgctt cccctaagct 120  
 ctctgtcctt tcttcacgtc gcattccatg ccttgcgaa tccttgaggat accctcgcgt 180  
 tgtggctact gaaaccccggt gtgatgaaag gtgtgatgct tttgtctgat ggcaactcctc 240  
 tcatggggta gccaaagtggc cttatggcga ggacgggatt ataattaata caacccttg 300

ttcccatcaa gggaacattt ggacatcctt cgcataga tagaatcctg attcttcctt 360  
ccttctagcg agggaaaccaa ttaacagatg ctccttct 398

<210> 14575  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 14575

gtgcaagcga cattttatctt tatctttttt cttcaccaaa aaagagctgg accataaaga 60  
agtaactcat tcgactaatt aacaagctcc aaacatgaga gcagacagct acacaccgaa 120  
aaagctgtta ctaatctttt cgaaagcatg ccacattttt atagaatgtt ctgaaagaac 180  
cccccttggg actagaactg ctacaccttg gcttttcttc ggaaatcaga ggaaaatatt 240  
cgggttaaatt ggttcttttc ttctcagata cgatctttta ctatgaacag gcgtagacaa 300  
aaaagttaaa tgcagctttg tttcatttaa tacta 335

<210> 14576  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14576

agcttcggtg attgttcggg actgcgngag caagcacctc tactcctccg ccattcttctt 60  
cgccgacaaa gtggcagcct tcaccgccga ccccgagac atctacatgc aggccaggc 120  
cctcttcttc ggccgccact accgtcgcgc cttccacctg ctcaacgcat ccaaaatcgt 180  
cctcaccgac ctccgattcc gctacctcgc cgccaagtgc ctctgtattct tctggttctt 240  
tctctctttt ttcatattgat tattgattaa aaccattcat tgaaaatata catcaattct 300  
aataatggga tgtctttttc tatttttatt tanacgagtt gaaacgtgat tcttgaatga 360  
attcagatag tatgagttac aacttata 388

<210> 14577  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 14577

aatgagagga acatgaaaga taaattatac cttaagtaac attgtgatac tttctaatat 60  
 taagaactta aatgacaaca aaatacattc tgaagatcaa gatgatgatg ataaaagaac 120  
 attgcatagc ataagaaaaa cactctaaga gtgtgtatga tttatatgag agaggtagaa 180  
 gacattcaaa aaatataatt ttgtattaaa ataatatgta agaaacatga atttgacatg 240  
 ataaaataca gaatgtctct gttatttagt tattggcgaa acaaacacac ccgaagt 297

<210> 14578  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14578

nnnattcgtg ggctttcgtt tgatncnntg aanaaacngg naacnggagc tgggaccagg 60  
 gagccgaaga gaggacaccg aggcttgctt tctgtttctg acaanccnca agagcgggac 120  
 agcgcgtgaa caacatacgt gcgcaccact caaccagtat atgaggcgctc ggcgaccgag 180  
 cccaacaaag cacgctcgaa acctactgga catgcgacac cccgcagccc gtgectggcg 240  
 agcgccacag agcacccaaa ccttgaggac acagaaacac caggtgagga gcagggggac 300  
 gcaatagacc gatggcgcg ctaacaccga gtagcctagt gtgcttaagg cgcggaacag 360  
 acaagaacca atacgtgcac tcggggccacc aaaggaacat aaggacagcc tacacatgac 420  
 gatagaatgc ggattcgctc ctccatcgag cgacggaacc aaataacaga tgctccttaa 480  
 atggctagac tagagtcaga cccacaatcg 510

<210> 14579  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14579

atcttattct acgcttagnn ctcaaagaac tacgtaggtc tgatttcctt atcacaattg 60  
 acgaatacgt atgagcaagg gaaacaccct tgtcgacccc aaaaagata aaaaaaatgt 120  
 aaaaagcac aaaaagacat aaagacgtaa aagggaacat aaaacaaatt gaagtcatat 180  
 ttgcacactt gattaaaggt tgtcgtcctt tgtgacggac gcgtgggggtg ctaatacctt 240

ccctgtgcgt aagtataact cccggacatt tcaactaaat tntgtagacc acacctttcc 300  
agtttt 306

<210> 14580  
<211> 431  
<212> DNA  
<213> Glycine max  
<400> 14580

agcttctttg ttatacctcg atcggtcatc tttccaggcc gaggtcgacc gtcatttttt 60  
tcgatccatt tcggtgaata atattttttt gccgagatgg gctaagtgtt tcctggccga 120  
ataaatggga aaatgccagt ttcggccgaa acgaaaagtc ggttgagctc gcacaaaaaa 180  
acctagccga cctacatttt aaatttttca tgcaacccca aaacaagaaa acttcctgtg 240  
ccgtaaaaaa aaaaaaaaaa cattacatga cagcgagcgt tttgaaaaac aaaattgcgc 300  
aacgtcggct gaaaaatatc agtcggggct tttcacgac cgatgtcggc tattgagttt 360  
tcaattcaat ccgtgaacga aatttgcatt atgtcggtta ggaaatgttc gatcggcatc 420  
atcctgtgaa g 431

<210> 14581  
<211> 408  
<212> DNA  
<213> Glycine max  
<400> 14581

agctatagtt atatacttac taatcatagc tacaaccttc cgattaagga gctcccatc 60  
gttgcttttc ttccctttca tcttattctt atgggtgatt gactcgtgca aatccttgca 120  
gtacagatga ttttccatca ttgacttcca ataggagtaa ctttttgcaa ttagcttgaa 180  
aatatctgca tcatgagtga tagctccctc catcttgaat cacacaggat aatagctccc 240  
cccaaataca gcaagctctg ataccactat tgggaaacac tagctctatt tccctctctg 300  
tagactcaaa atagacactt agcggaaatg aacaaaaaaa atagaataga gagtagaaga 360  
atgacacaca cgaatcttaa cgtcggaaat cctttcagag tgaaagat 408

<210> 14582  
<211> 480



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14582

ngacgtaggc attgagatng taanaccaca atcagcaggt cacagggacc gaggacgcac 60  
gcgaagatgc ctcttcaatt aattcngcaa ncgccgagga aggactggga agagtctcct 120  
acacaatagc gaccacagag aaacacgggg aacaacgtgg agctcacctg aaaaaaagag 180  
gaaggtagga ggcgaacatg ccgatactca gtccaggggc catttatcaa aagagaaaang 240  
aataagacct tgaatacaag tcaactcaca aagcatagat acgatgggag ataaaacgct 300  
ggctcagagc atatatggca acggcaacct gaaccaattg gttggataga accaccgtca 360  
acataatcac ccgattatct gtaaaaggct agggcaggaa tggcagaacc actctactgc 420  
atagaagcgc cagaaagcaa acaaatgacc tggcctngat aaggatagta agcaaatggn 480

<210> 14583  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14583

agcttccatt gattcacata actcccatcc actggatccg cccttatttc ctccatcaga 60  
aacttgtaag cagtgttggc cgaataaata ccactcgaat gttgcttcca aatccaagaa 120  
tctgctccat gttgttgaat tgatatcagt cctatatcct ataggaattc tgcagccatt 180  
gaagcttcac tatcgaatag gtttctctc caattgaaat tccattccca cccttctctc 240  
ttgtggcttc ccatgagtct gatagtttgt tgtgttggc tagaaacttg atacagcgta 300  
ngaaatttgt ccattaaagt tctgtccccc cctaaccatt tgtcatcncc aaatctggtc 360  
atgtcttcac aatgcacctt ccactctatt tgatccttat ttttattcac tcctctattt 420  
g 421

<210> 14584  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14584

agcttatttt tctttattta taacgaacac agaagacgnn agaactgcgt tgaacctcca 60  
gcctacattc acacgatctg gaacatggca caactacacg tctagacaca gagcttgtac 120  
agagctnatn tncacccgca acacgaaaac aagattacat ggaaatatga atatatactg 180  
tgttgagcta gacctagaaa cgttcaagaa gatactgtcg gtatgttgca ctaactaatt 240  
caaataacat gctnttcgag cctatatata 270

<210> 14585

<211> 403

<212> DNA

<213> Glycine max

<400> 14585

agcttgcatt ctataccttc gaccaaacac ttgcgtgtgt atgtctcggc ccggatttaa 60  
cgcggttgct aacaccggct ccgcttcctt aactgtacta taggcggctg ccgcggctat 120  
atcctctata gttttctgga gttgtaacat gacctccgat atggaagcca tttgatcttt 180  
taaagtcgat agatcagcct tcatctgctc ctgcatgccc tcttcattat ccattcttct 240  
ggatcgagtg ttatacgggt gccttggtgt tttcttattt atgatgaaat tcctaaagaa 300  
ataaacaaca gtgagtatgc caccaaaaca tgaatatgct aatgaatgat cgaagcactc 360  
ggatccaccc caagggttct atattacatg atgagatcag aac 403

<210> 14586

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14586

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ggcaggctgc agcaccggct ccgcttcctt aactgtactg gaggcgggtg cgggtggcttt 120  
atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180  
taaggccgat agatcgacct tcatctattc ctgcatgccc tcttcattat ccattttttg 240  
gatcgagtgt tataggggtg ccttggtgtt ttcttactta tgatgaaatt cctaaagaaa 300  
taaacaacgg tgagtatgcc accaaaacat gagtatgcaa atggatgatc ggagcacttg 360

gatccacccc aagattttta gataacgtaa tgagtccaga acttctcatt ntataaaaag 420

aaca 424

<210> 14587

<211> 184

<212> DNA

<213> Glycine max

<400> 14587

gactaatgaa atctcaatca atctaatacg agatacgatg ttctaggaat ttttaaatta 60

gttataatcc tatgaatatg cgttttatct tatggatctc agtgataatg cacttcttaa 120

atgctaactc caatttctgt tcaagctaca aactcttttc cactatagat tttcaaccta 180

caac 184

<210> 14588

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14588

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atttctccac tgtattccgt gtgacaagtt atgaccattt gaatttctcg atagcattcg 120

ttgttcaatt tcgagcgtct cgatatatta tgcgcctgaa tcggacttcc gtgtgacaag 180

ttatgaccat ttngaattgt cgagagcatc cgttgttaaa tttcgagtat ctcgatatat 240

tatgcgcctg aatcggacat ccgtgtgaca agttatggcc atatgaattt ctcgagagca 300

ttcgttggtc aatttcgagc gtctcgatat attctgcgcc ttaatcggac ttccgggcga 360

ca 362

<210> 14589

<211> 379

<212> DNA

<213> Glycine max

<400> 14589

agaagagggg ggcttgcatc gccttttacc tcaatagaca agatttgcaa gtgggtgaag 60

aaaaacttta taggcagttt cgtgtcagtc caaaagatgg tattaagtg ttgcttgata 120  
 aatctcttat aaagattaat gagcatggtc gggtgataat gcatgacttg acacaaaaca 180  
 tggttaaaga taatggtgac attacaactt gacacagaac atgggttgag ataatgccta 240  
 aaccataata tcatttcaaa caaggtgtta caatcgtttg gagaaaacac tgtaagactg 300  
 atatagatgg tttgggtttg taatctttta ctttgataca tctcatttat caatgggagt 360  
 tcatcattta ttgatgtta 379

<210> 14590  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<400> 14590  
 ggcttgcttc ttcttatttc agagaaaaga tgaatacttg gctacttcat gcactcctct 60  
 aatgacaata gcatcggtgc tggcactaaa ttgctgggag ttggaagcca tcttctcaat 120  
 taaatttctg gcttcagcag gggcatgct tccaagtgt ccaccactag cagcatctat 180  
 catacttctc tccatgatac tga 203

<210> 14591  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14591

tttctaata tcaaaangcc tcaatcattc caaaatgcat gtgaattaag aagcatcaac 60  
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 tgatgatgga tgactcaaat tctcaciaag gtaaactcat cactttcaaa ttaagctttc 180  
 ataactatca tgacatgtat aggagaatca aggatttcaa gtcacaaaat gtcaagaacc 240  
 tttattatta aaacaattac ccatttctta aacatattcct ataattcaaa gaaaaacatg 300  
 ccaaagtcga catgcacaca aaattgaccc acaatattaa actataaatc cacgaaact 359

<210> 14592  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14592

agcttgatat gattaagtgt ataagggtga aacttcctgc ttttattcgt tgaccacaga 60  
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtggggtgct 120  
attgcccaaa agcaagcttg accaatcccg acccaaccg ggcatagtca gtcagtgaga 180  
acctgtgatg tacctaaaca ggcgagctcc tggccgtcaa tagataaaag aataaagacc 240  
acaagcaag gaggcttgtg tgggtggctgg ccagctgtga actntgagtg ttatatggga 300  
tatggcctct ggtaatcgat taccaaggat gggtaatcga tta 343

<210> 14593  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14593

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agggagcgag caggtgtgtt atcccaacag gaaccaacg aggcgaatcc agagcaaagc 120  
ccggccccca cccccacaga gagaacata caggagccgc cagcctgacc cagagacatg 180  
acgcgacgtg gggcgcgggc acgaagccaa gaagcaggac aggagcggcc cgcaggaccc 240  
aggggcgacc atcaagcata gcgccacgag gaagggacct gaacacatgc aaacgtagcg 300  
aggacgtga ggcgaacgac ccccgaggc taaaacacg agagggcgac aagcgcaagg 360  
cccatgagga aagagcaacg tgcggcacgg cggtcgcgaa agcagacgaa cggagccgac 420  
gcgaacgcca gagcaccgga ataaagcacg agccgacgag acgagaagcg cggctagaga 480  
ggacc 485

<210> 14594  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14594

gactaccgat ccgagantct gaaacacaan accngagang gacacaggaa cccgacggag 60

agagccaagc ttgatatact ttattggaac acagcagcgg aggacagcac tgacgccaca 120  
 cacaagaagg gcaccctggg acgagcccgg ggcaccaacg aggggaaacc agagcgggga 180  
 cgtagagagg gacaaacgac ggcaggaccg accaaacaga gaggaggagg ggctcacgag 240  
 ccacgaaaac ggggacccga tagcgacaac cccggaccaa agaccaggagg accaaagagg 300  
 gaaaaaccgc cagaaggccc aaagaaggaa aacaccagca gcccgaaaga agaaccaccg 360  
 gaaagccagg cctgacc 377

<210> 14595  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14595

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 ctagcctaag tattttttaag tgaataacca gaataacttg aacaagtaat tcaaagaatc 120  
 agcaacatac ctcagcaggc caggcatcag actccttcaa actcacattt gtctccaact 180  
 gcttgaattc aggatagata caagcactag aggcataaaa aaacctaataa aaaataaacc 240  
 aaaaaacaag gatcactatg acggcgacat aaagactata tcatgcaatt gaaagtgaca 300  
 taataacaca tgtntgttca aaatgaatga cctcttaaca ccattgatcc tggcagcctc 360  
 aatcatgttg aagctaataca tgggtgttggt gtacataatg a 401

<210> 14596  
 <211> 109  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14596

agcttgctct atattacatt gatgtttgta tntattggag gggtttgat gccatttttt 60  
 gttttaaggg tagcgtttct tggtaaaact aactttccaa acgtttgcc 109

<210> 14597  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<400> 14597

gtggcggctg accaactgtg aactttgaga ggtaaaaggg atatgagctc cggtaatcga 60  
ctaccaagga tgggacacga gtacaacgct cacaaggaag acagcgaacc atgacggctc 120  
agatatccct acccctcgga cgcacaaac accgagatga aaaacgaa 168

<210> 14598

<211> 127

<212> DNA

<213> Glycine max

<400> 14598

taccacccac cggaccctag caccgagagc gctgttttgt tctagagaag aggatatcga 60  
gaaattccgg aaagaagtaa gaggggtggc caaacaaaag agctacgagg cggacttgga 120  
gctaaaaa 127

<210> 14599

<211> 419

<212> DNA

<213> Glycine max

<400> 14599

cttaccatat atttggtgaa tgagggtgct gcatgtacac ctctcttcc aaaatcccat 60  
taagaaaaac attatttaca tcacactgtt gaggtggcca gccataagtg acagctaggg 120  
tgagaagcaa tctcactgtt attggcttta tcacagggtga gaatgtttct gtatagtcag 180  
tttcatact gctgatggaa tcctttggcc actaatctgg ctttgtattt actgactgta 240  
ccatcaagat tctctttaat tctgaaaacc catttacaac caatgggaac tctgttatga 300  
ggcagagaaa caagagtcca agtactgttg ttgatgatgg catcactctc agctttcatg 360  
gcagctaacc atatgaagtc agtcaaggct tgcttaatag acttagtttc atatgacat 419

<210> 14600

<211> 402

<212> DNA

<213> Glycine max

<400> 14600

aagagaaaga ggccagagag acccattcaa ctccacatgt ccacggcgag aaaacaacac 60

atagcagcat aagacacttc atgtattgcc atattatctg atggctatct tttattattg 120  
 atatgaacac atgtatatcc ttacatctta tatgggtggg gatgattacc ttctctatat 180  
 tcatacacac taatggctaa ggtgaagcaa tttgctctgt atccgtatga cagtgcata 240  
 tctactatat catttggttg atagtgatat attaacacag tttttttcta taattaacgt 300  
 tgtgttctca ctattgacct ttgcatactc aatcatgtta gcactttttt atgtgtagat 360  
 ttacattatt attgaatgct tggctctgatt attttattca cg 402

<210> 14601  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14601

agcttattct aatttataaa aattgaatca tcgtcttaac aagtatttat ttggcaccaa 60  
 aaaaaaaaaat aaacaagtat ttaagaaatt ttagctagtc aaaataagaa aattttttatt 120  
 ttaaaagttt tattccaccc cttcatccca aattgtggga gaataattga attaaatgga 180  
 tagatgttat ataaatcata gtcactcttt ttttatcatg tagtatcaca tctctcaata 240  
 ttttatttta tattctaata atagatgcta tcttgaaatc ttaaattatt tttttgacct 300  
 acaacaattg aatgcaaatc aattntatga agaaaaaaaa atcaatcttt taaatggagg 360  
 gtagattnta acagttaatt tacaagaatt gaatcactna aatcaaacat 410

<210> 14602  
 <211> 111  
 <212> DNA  
 <213> Glycine max

<400> 14602

tatcttgctc taaatctaca ttgatgtgtg tatttattgg agggggttgt atgccatttt 60  
 tgttgtaagg gtagcatttc ttgtggaaaa ctaactttcc aaatgtttgc c 111

<210> 14603  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<400> 14603



acaaaggagg ggacatccct agcggatctt tgcttgtaaa agattttata aggatattgg 60  
 aaatctcaag aatcgggtgg cgcttggtga ttggacatag gcaactgggtg ggaccgaacc 120  
 aatataaata ttgtgtgtgt cttcttcttc cctacac 157

<210> 14604  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14604

agcttcatgt gttatggcct cagcaactt cttatttcca gaaggaaatt caatcaatag 60  
 acctccaatc tttaatggag agggttacca gtactggaaa acccgaatgc aaattttcat 120  
 tgaggcaata gacttaaaca tttgggaagc catagaaata ggaccttata taccaccac 180  
 agtagaaaga accataatag attgaagcac aacaagtgga agcacaacaa tagaataaac 240  
 tagagataga tgggtctaaag aagatagaag acgagtacaa tataatttaa aagccaaaaa 300  
 cataattaca tctgccctgn gaatggatga atatntang gtttcaaatt gtaagagtgc 360  
 taaggaaatg tgggacactc tacaagtaac acatgaaggc acaacatatg ttaaaagatc 420  
 t 421

<210> 14605  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 14605

agctatttat catttcaa at ggtcataacg tttcactcgg atgtcggatt caagcgcata 60  
 atatatcgag acgctcgaaa ttgaataatg gaagctattg agcaattcca atggtcataa 120  
 cttttaactc ggaagtccga ttgaggcaca taatatattg agacgctcga aatcgaacaa 180  
 cggaagctct ccagaaattc aaatggatcat aactatgaac tcggagggtcg gactgagact 240  
 catattatat tgtgacgctc gaaattgaac aatggatgct cttgagcaca ttccaat 297

<210> 14606  
 <211> 406  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14606

agcnaagctt atttggncnt tgctagagaa agganccgang ngggtctgag aaaggcaaatt 60  
ttacccatcc tgcttgacg aatgaaaaaa ctagggccaa tgaagagggt gatgatgaat 120  
ganaaccgt gctgtgactg ccattccaat acaaccaag tccccacca cccaacaatg 180  
tctttactca gccataaca aaccttcttc ttaccacc gccagttatc caccaaagcc 240  
atccctaaaa tcaaccacag agcctaccta ccgcactttc aatgacaaac accaccttta 300  
gcataaacca aaacaccacc caaatatgaa ttgagcga aaagcctgta gaatcacccc 360  
cattcagtgc ctatgctact tgctccatat ctacttgata ttcaat 406

<210> 14607

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14607

agctagattt cttttataag acaggacaca ctgctgtctt ctactataag ctaaacaga 60  
tacaataatc tattctaaag atacacataa ttataacata ttcaacactg atcctatgtg 120  
ctcattataa ataaaggctt agtgtggtca tccaagacgc gacattacac agtaaacac 180  
tattataata aatgaagact aattgtggtc atcctcaaca acacattaca gcaaaccctt 240  
ccaacatcca taatgtgcaa tgaatggtat ttaatgcata taatgcaaga actagtaaca 300  
tgtttgcttt gacatctcac ccattgctcat gtgtgntca ccgaaacaaa cattcacggc 360  
ttctacatat attaagctat gactcatgga tatgaacaga cctaactatg gattttttgt 420  
aa 422

<210> 14608

<211> 495

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14608

nnnaagtacg ttgttagttt tcttttacnn tcacannnaa tnagagcacc gggcgaggg 60

atccagtaga gccgaccgcg tgcgcaggca ggttaatttt tagtacttta taaangaaac 120  
aacngnccggg cgagtgttca tttgggcccg ccacaaacga ctccgtgaat aaacgatatt 180  
gcgctggtca aagaaggaaa atttttatat gaatagatgt ataccacccc ttcataccaa 240  
tcgagggaga tttatagggt taaatggtac atgttggtcc tacatagaca tctatatattga 300  
tcgtgtgaat acatctctca tattggttgg aattctagaa tgcacgccat cttgaacctt 360  
acatatattga gtgcgccccg caaaagaatg ctatcagggt gccgagcaat aaatataaga 420  
cttctatgtg caggaacgca acagagaata gttcgacagt gtatgctgcc atgaaacatt 480  
cccccttcat aggtg 495

<210> 14609  
<211> 178  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14609

cctagcgtgt cgccaggaca gaaaacaagt accatagttt acagatgcct aacacataat 60  
tgcctctgct ctgcgaatgg acgaatatcc taggcgttca aacagtagat tgctgcgaca 120  
tgtgtacact ctaaagtaac acctgacgcg cacatatgta gaagagctgg ataactcn 178

<210> 14610  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 14610

agcttcatat ggagtttttc taccagaata cttgtgtact ccctcttcca aattggtatt 60  
acttgttttt atatgggagt ggtcttacca gcaagtgcac cgggtcacca agtaaaataa 120  
ttaaaccgga atgaaccgag tatcgaacac agcgaacttg ttcgattagc aaagtttttt 180  
taagtaagca agcatttgca aacagaaatt aatgattgtg aattaaagca aaagtatgtt 240  
ctatcctaag taaaagcaat aaacgagaac aagtaagtgt gagaacatat atctaaaagc 300  
gtcgggtcct cctactaagt aagttgatgc aataaagatg ttatttaata aagatgtcct 360  
atgtctatgt caggacaaaa tacaacacaa atcctca 397

<210> 14611  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 14611

tacgaaagac tgccgaggat attcagaaat ttaatgactg cccacaccta ctgactcgag 60  
 ggggggtatga actgcttgac aagagactta tggaggagaa taccaagcgt tgacatgagg 120  
 aacatcacta tactgaaaac ccaacactca acatcgaccc ttcactctct atggcaagac 180  
 acttgatgtg gaagatcgca cgcacaaaga gctatgaccc aatgacgtcg gacgcggcac 240  
 gagaatttgt gcacataatt gagagaccat gtcttctttt ggtactggca ttgccaaata 300  
 atggtgagcc a 311

<210> 14612  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 14612

agtctttttc ttagggagac ggaccatctc aagtgctcga aagaatcaat gacaatgctt 60  
 acaaagatga gctgcccggg gagtataatg tgagtttcac cttcaatgtc tctgatatat 120  
 ctctttttga tgcatatgga gaagacgatt agaggacaaa tccttctcaa tagggacaga 180  
 atgatgatga catgatcaag agccatggca cagatccact tgaatgactt ggagagccta 240  
 tgacaacggc tagagcaagg atagccaatg aagctgttca cgaatgttga catactattt 300  
 ga 302

<210> 14613  
 <211> 102  
 <212> DNA  
 <213> Glycine max

<400> 14613

attaatgcgc agcaacacat cgtctaaggg caccaatgac tgccttaaataaaggacgcc 60  
 ttgtcctgct actcatctca acactcgccg cattgattaa cg 102

<210> 14614

<211> 277  
 <212> DNA  
 <213> Glycine max

<400> 14614

ttgatgcact cctctaata cactcacatc gtttctggca ctaaattgct gggagtttga 60  
 agccatcttc tcaattaaat ttctggcttc agcaggggtc atgtctccaa gagctccacc 120  
 actagcagca tctatcatac ttctctccat gttactgagt ccttcataaa aatattggag 180  
 aagaagctac tcagaaatct gggggtgagg gcaactggca cataattcta tacatctctc 240  
 ccagaattca tataggttct ctccactgag ttgccta 277

<210> 14615  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14615

gaggtagcct gacatcgatc aaaancgnag tgacaggaca aaggaggggg cgagtttgtt 60  
 tcgtttanga ccacacacgg gcgcggaggg ggaagaaaac actcgcaccc aaacaacgga 120  
 gaaacacgaa gccaccggac gccacgcaga cacaaaggaa gaacgcggtg ggtacgcaca 180  
 gacggacacg acggccgaac ggacagaacg cccggcacga tcgcaaccga ggacagggcc 240  
 ctgagaacgc cgagagccgc ggacgcccga accggagaaac gacgcgcccgc cgccaaagtg 300  
 aaccacacta gcgtacggcg ccagtcaagc aaacacctag ccgggcaggt atgcgcccga 360  
 gagaagacaa cagcgccgcg gtaaagcaca tcggacgccc cccccccg 408

<210> 14616  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 14616

agcttcttat gtttttagttg ataaagatga attcttggct acttcatgca ctctctaat 60  
 gacaatagca tcgtttctgg cactaaattg ctgggagttt gaagccatct tctcaattaa 120  
 atttctggct tcagcagggg tcatgtctcc aagtgtcca ccactagcag catctatcat 180  
 atttctctcc atgttactga gtccttcata aaaatattgg agaagaagct actcagaaat 240

ctgggggtga gggcaactgg cacatagttt tttaaacttc tcccagtatt catataggtt 300  
ctctccactg ag 312

<210> 14617  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14617

agctagcctc ctttctctcc caggcaagct aggttgcttc ctccctctgga ggaacatctt 60  
ggaaggccca agtgggccta cttgctatct gcacccctct gtttactaaa tacaccccct 120  
gcctttnttt gctgattctt tttccgtaac gttacagaac tttacgaatt ctgtaacgat 180  
acttgttttc cttccgtaat gttacggaac cttacggatt acgtaatcat cccttttttg 240  
gctttcggaa tgttacggaa cctcacggat tgtgtaacaa tgcttcctta tgatttcggg 300  
catgttacgg aacttcacgg atcgtgcaac aatgctctct tttgacttct ggcattgtat 360  
ggaacttcac gtatcgtgca acaatgggt 389

<210> 14618  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14618

agcaagagtg nctgtttgtt gangnngagc caagagctag catgctacgc taagctctaa 60  
ttctttgtgg ctctgaacat tgtagactta ggctaagctc agttgcgtgc taagccattc 120  
tacaaaaaat gtttctgtgt cttcgagcta agcgtcaact tgctgcgttt aacgcttgag 180  
taaaagttaa taagggtgcg taagctcaac atgctgtgct atgcgcccag tcagaatttc 240  
agtattattt ttctgtttgt gtgaaaataa catgtattaa tctcttgtgt tt 292

<210> 14619  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14619

ctgcatactc atcccttata acaagattgc caaaatccaa taactctgcc actggattat 60  
gtgcttcttt tggacaattt gtggaccaca caaccgtgtt gttgtgtgta aggaccaa 120  
tgccagaact gtttagtctc aagatggcag aggaatcatt tattgggttg ccaccgtttg 180  
caacccaaac aacatthttgt gacggattat tcttgaacca aatccccagg tagctthttgt 240  
ttggaagtcc aagattgaag aaaccaagct canagattcc cctttgggaa accatggtct 300  
ttccaaaact ganggattgg gactgtgaaa tggatgatgt g 341

<210> 14620

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14620

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gtggcatctc caatcacctt tctccttct ncattttgtt tocattgatc ttcaagaaac 120  
aaaggactcc attgatgaag aagatccaag gcctaccagc tcaacatgga gctacatcat 180  
gtggtatcag agcatcttca tctaggtgat gatctthttgc ttctctatc tntntgcttg 240  
gtcaattcac tataattcct tgggtcttcat cttcttctcc atgtatctcc tccattgctt 300  
gtggcttggc tctgtntaga gtagattcaa aaaaaataa accgattcaa tcttagatct 360  
acacttgctc ttgcatttct atgggtcaca tntaatagat ctactcttga atcatgtttt 420  
a 421

<210> 14621

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14621

gcaccggcga ggcgatacag agagccgacc ggcagcagcg caagcttctt atataaatgc 60  
gagagaacgg acggcgggtg ccagcacaac gacaacaccc ccgagcggca ctaaagngag 120  
ggagagcgac ccacaactca gccagacgg gctgaccagg ggtcatgcgt acagagcgca 180

ccaccagcag caccgaccaga cctcgccccg cactgagccc ca

222

<210> 14622  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 14622

agctttactt catatgtttt ccaaattcatc aagaatcttg ttgaaaacag ccaattgtta 60  
agtggctgtt cttgactctg tcatcttgaa ggtgtacagt ttttgcttca agcatagccg 120  
atttgcaagg gactttgtca tatacaatga ctccagtttc aaccacattg aggctgctgt 180  
cttttctctt gcaacttctc ttaaagcttt atctccaagg tatataatga ttgcacttct 240  
ggcttttagca atcatctctg atttctcctt tgagcttaga gattcagaca tcttttcttc 300  
tcctttaaga gcttctgcac aaccatgatg aatcaagatt gcttccatct tgattctcat 360  
aaccacagt cattttccct gaaaacttct ctatatcgta ctttgttggt ccatctt 417

<210> 14623  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 14623

agctttgttc caaaatcctg acacaccata aaccttgacc cagggtgaga atgtcaattc 60  
ttaccctcgg aagcaaaaaa aaaggggaga gggaaaattt ccaatcaaag aggaagcaaa 120  
aaaggagaga aggaaaattt ccaatcaaag gaaaaaaga gaggaaggagg aattcccaat 180  
caaagagtgg gagaaagcaa aaagaaaaga aagataattc ccaatcaaag aatgggagaa 240  
agaataaaga gaagaagata gggaagaaag ttcccgatca aaaaaaaaaa taatatgcag 300  
aaaggtcttt ggaccggaca atatctgaac aatacagaat tgtcaccaaa tgaataaaaa 360  
gaaggaaagg g 371

<210> 14624  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14624



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catggagttg cagcggaaga taaaggagaa gagttgagag gaggcgtcat ccactatgaa 120  
ataagccatg gaaggaggag cttcaccacc atgagagtgt cttggataag aagcttagag 180  
agaaagcttc aatggaggaa gaaaatgtga gagggggggg gggcactaca ttgaaggaga 240  
aaaagaggga gagaagttga actttgaagt gtgtctcaca agattcttat tcatcanagt 300  
tacaagtgtt acacatactt ctttttatag cctaggtagc ttccttgaga aacttccttg 360

<210> 14625  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14625

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aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattntggg gtccaaaaga 360  
ctctagaaac attacaagaa catttttatn ggccatcat 400

<210> 14626  
<211> 218  
<212> DNA  
<213> Glycine max

<400> 14626

taaccgccat cggccagggc caatgacgtt ggagatcagc agggccccc gaaaaagtg 60  
gcagtaagga ggcgaaagat agcggtgcgg aggtactac ggtgagacgt ggacctgctc 120  
tcgaagatta tgtactgaca catttgatga caactgctct tcaaggggaa ggggatgatg 180  
gaagactacc tatgagggga cgaagcacta taacaatg 218

<210> 14627

<211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14627

ggcttttatt ctattttccc aaacatgaca aagaatgttt ccaacaatct aattctcacg 60  
 ttaatctagt aaatcttgtc ctactctnta tatagtttta tgattatcca attgattcaa 120  
 gagcaaccct gcatgttcac atggtatcat gaagtattat ataaaaatct atctgatcat 180  
 catcaataag caaaatacag aggctgtcaa caattaattg aacaataaca tattaataac 240  
 aaatagatat ctcttgacac acatatacag aaagcatact caattcatga tagtaaatca 300  
 atcaaacgta cactttatag gtacgagana cangataaag acacattata atcatagata 360  
 aat 363

<210> 14628  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14628

agcttagttc tatatgggat gaaccttttc aggttttggga gaggatcaat aacaatgcct 60  
 atagggttga cctcccagaa gagtatggag tcaggaccac ttttaacatt tctgatttaa 120  
 ctccctttgc aggtggagct gatattgagg aagaggaact aacagatttg aggtcaaac 180  
 ctcttcaagg ggaaggggat gatggaatcc tccctaggaa gggaccaatc actagaacaa 240  
 tgagcaagag gctccaagaa gattgggcta gagctgttga agaaggccct anggttctca 300  
 tgaaccttan gatagaattc tgagcccatg ggccaagggt ggggtccaatt atctttgtac 360  
 atattagact angatgtcat tatanttggt ccttgatat agggctccat att 413

<210> 14629  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14629

nanttttgtt gagcaganan anngganagg cacgggccag cnngcagcag agaggaacac 60

gaagcaacaa nccgnnnnnc caccgcaana gaancanccc caccnnggcgg gaaccacgaa 120  
cccngngcgaa caaanngca gcgannccaa aagaaccaac cacaacacnn cnacagcacg 180  
gagaaacann gaangagggg agaagggcc aacgcgggaa aagccggngg gaggcagnga 240  
ccngcaccac nnggcagcaa cggaacaaga gagnagccnc caacgaaaca cnngacagca 300  
ccaaancgan gggcaaagca gccaccncgg agcggacccg gcngaagcac anggagaagg 360  
aacaacnacg ccacnncaac caacgggcc aagaaacnag agaacggaaa gcgaacagcc 420  
cacg 424

<210> 14630  
<211> 468  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14630

naaaggctat cttgacatcg tgatncacaa gaaccgggan nccncagagn cgacctgcgg 60  
gcaagcaagc nagnatgcta ataangtgac gcaggcnann naagggacgc gacaggagag 120  
natgcnagca caccacaca gaaagacaga nagacaaana aaaacacaca gagaaaggca 180  
cacanaggca aagagacaca cacaagaaca cggaggccag cgggagcaca gaggacgggg 240  
gaagcaaaaa gcaacgaacg ccgcggccgg cccgcagaaa gaaagagagg cggccgcccc 300  
acaaaaaaan ggacagagcc ccccgacaca ccaccncan gggggaggaa aagaacgacc 360  
ccccacaga gccacaaaca agcccccccc gngggaaaca caganagaan ccgggcgcga 420  
aacagaggaa aaaacacaca ccggcggcga aaaagcagac cagggccg 468

<210> 14631  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14631

gangatgatt ttgngtacc cgcacaaagn ggnacgagg ggccaacggg cgaaggngca 60  
aaacaacncc ccacagccac aaancacgca taaaccacc aaccccagna gcccaacctn 120  
caacggagcn cacgnacgcc caagnncccc ccatccnca nccnccncaa caaccgggag 180

cccancaaac gcncccaagc cgccgcaaca nccaagcaag acaacancca accatcanga 240  
accagcaaaa ccaagaaaac agcgcanagg aagaaaaccn gcccanaaaa cacaaccaa 300  
naccgcaacn nnnctactc anatacccca gnaacattct cttncttcca atttgtttac 360  
ccgtggatcg actcgaaaat ttactggngg ccccgatata taaatctaca ttgtgaccgg 420  
tgggatctgn 430

<210> 14632  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14632

nagcttcgtt tacgatgttt aaacataaag tcaacttaca gcatactagg aaaacattgc 60  
aaagatttaa ctgcgaacca tacagtgtgc aactcccttt tgccgaggcc accgtactcc 120  
tgatgctgtt cactaaggat acgccggatc cccacggtta ttgagaaacg cgataccgga 180  
gaaccgactc gactgtaatg aagtcgggag tgattacgca cgtgatgtan ttcaccaca 240  
cgtcgcccaa ggacgcgagt tatggatgtc aacagacttg attttatgtc cttgtatgct 300  
tatatctcta ccttttaatt ttctttgtgc 330

<210> 14633  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14633

aaaaaactgc tgtctagttc atttatgtac ngcagagtta ataaagcacc ggcgagggan 60  
acagnagagc ggcacgcaag gcaggcaagc tttgttttca tggcaaccaa cacaagnac 120  
ggagaggctc atgtgaatga gcctctcngc cgcaccatc atgaacacat tgtctttcag 180  
taccttctat tcctccaagg aaataactcc tccatacggg agaaactgac attgatgaat 240  
aagaaccaca tcacgctag tataatcatt acaatgggaa ggggaagata gaagccaccc 300  
tatgaaggga ccaagtccta gagcaatgat tgcgacgtc caaaaataaa ggactatata 360  
tgtagataaa cgcccaaagg taacaggaac cgatggatat aaagctcaac catgcggcac 420

agtggcgcca gaaacctaga cattgaaact ggcattgactt ctgcaaggca cgtggcggag 480  
tctataccgt cggctggaca tcn 503

<210> 14634  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 14634

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tgttaacttc taatgtgtgc ttgaattgtc ctgtggaaat ttctggtaga acatttgtca 120  
ttgatctgat ttgtttgcct ttgagctaaa ttgatgttat tctaggaatg gactggatc 180  
agagccggtc gaaacttttt gtttagagtc taacaaaagt aaaaatacaa tattatccat 240  
atcttctaata ttttcatcat ccaacacctt ttttcttttt ccatatgcat ctcttctct 300  
aaacctccta tgtcttgact tttcattatc ccatatcttt tttttgctgg tttgtttcac 360  
ttcatctcgt cgggtg 375

<210> 14635  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14635

gcttattaca tgttctacct cacagaanac cgggaagggtc agattgngct tcgttctgaa 60  
ccgaaaccgt gagtcaagtt tggaagattc cgtccaatt gaaggggtcc tctcgggtgtg 120  
gggtttcaac agagaaatac ggcgggttcgt ggtggctact attggctgtg gtgatgtaga 180  
agaagctttg gacgttggaa atatttttgg aagaaggaag gagacagaaa tggcgttttt 240  
ccaaggctac acgaatcaca aaggctgaca cactcaagtt cttctgctct cggaaaagga 300  
agcgtttctc acacgccgga tgctgtatcg ccgatctcaa cggtcattgtc gtccacaaat 360  
gtcttatgaa ccttcagacc aaatctcaag aggatccaac ggt 403

<210> 14636  
<211> 393  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14636

agtttttctt gataatctat agctnagcna cacacaccca tctaaaaact aatctcaccc 60  
tccttgacaa aatacatgan aatacaaaaa aaaaatccct actacaaaga ctactcaaaa 120  
tgccctgaaa tacaaggcta aaaccctata ctactagaat ggccaaaata caaagcccaa 180  
aagaaggaga aacctattct aatatttaca aagaagagtg gatccaacct tgacccatgg 240  
gctcaaaaat ctatcctaag gttcatgaga accctagggc cttctttatt agctctagcc 300  
caagcctctt ggagtcttct atccaatacc cttgnnggggt aggattgcat cacctgtgta 360  
naggaagggtg gatatgtact tgtcgagaca aca 393

<210> 14637

<211> 97

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14637

tttctnattt tnatacnnga gncagcgact tgagctgagt ctattcttac ctgaaggatc 60  
tgtgaaccaa actcatttta aattatatct aacctaa 97

<210> 14638

<211> 283

<212> DNA

<213> Glycine max

<400> 14638

atcagactca tgagaggaaa cacacactcc atcacaatca tgcattctaa ccaaactcaa 60  
tacatacacg aattctcgca aaaggaccat agcgattcac tgcaatgtca tcacaatcaa 120  
gatgaactgt tccatatgct ccataacaag cataccaacg gatgacagaa tgcacaacta 180  
tataactata aacggagggcc agaactactc agaacaatgc gctataacta atatagtcac 240  
aatcctagag atcaacttga actgagcatt ctctcatct atc 283

<210> 14639

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14639

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ttcttagttt ttcacntan aaaccttaat tnttgaaatt ataaataacc catggtggtg 60
aaaatccaaa gagaattgac agtcacttca acacaagttt gggcctttat ttcaactaac 120
aaaatgctaa taaaaccact caacaaaggt ggcacctctt actcttcttg gaacatggtg 180
caattgacaa tccaaagctt cgccacttgt aacttgggcc taaattcaaa tagcatggtt 240
aacacttggt aaagagtttc cttggccttc tttgttctag cccttggcat aagtcctcca 300
agtccttcta aagggttcctt gcccttggtt attgocatgt cctcatcaaa 350
```

<210> 14640

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14640

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agcttttcta tctcaatcat ctctgtctat tgactaacia ttctaattgc aagttcacat 60
tcttgttctt tctttgtcta aaatacatat ttgctcaaac tcatgaaaag aaacacaaac 120
tccatcacia tcatgcattc aaacaaaaat caattcatat accaattttc aaaaaaagat 180
aaaagtgttt cactgcaata tcatcaaaat caagttaaac tgttccatat gcttcagaac 240
aagcatacca acaaatacaca gaaagtataa ctatataatt ataaacggaa accaaaatta 300
ctcanaacia tgtactaaaa ctaatatagt tataataaaa gagatcaaca gaatctgagc 360
atcctctca tctatcaaat ggagaaacta gggaatcagt gagagcaaca acttctccgg 420
atg 423
```

<210> 14641

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14641

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agctntaatt gctttcatgt catctgtaac ctttacaagt tcaacagttg gcttctccct 60
cacaataggc aagagagcac cctggacttg tgttgcatth gcaagctcct cgaggagtaga 120
```

atcaccagcc tacaataaaa caacagtttc acatgacaca caaacatctt tcatttcgac 180  
cttcatcaga aatgaaaatg cctaccacaa tcaaaataga taatggaaca tctgaattac 240  
cttaaccttg tgtgcccgtc ttgggaacac aaccaatttg gccttgtatg ttttcagcct 300  
ctgcacatta gcttgcagac tttccaaaga acggttcttg cgacgatgat caacagcaat 360  
acctatgggtt ggtgcaagct ttttggaat ccctgctgcc tatggcataa tatanaaaat 420  
acataata 428

<210> 14642  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14642

agcnnngatt atgtcttaat taatcacatg tnnngcatca tcaaaaagag ggagaatgtg 60  
aatgtatgta tacatgattt tgatgatgcc aaagaagaat caaacaaggc tgcttcaaat 120  
gataagcatt tgcttcaaga ataattcaag attgcttcaa caaacaagc cttgtttcaa 180  
gattcactaa agaccaagtc ttgccttaaa acaaagtgtt ttcaagacat gcaaggctct 240  
ggtaatcgat taccagaaga caggggttgag aaatagctgt tgaaaaaggt tttgaatttg 300  
aattttcaac atgtaatoga ttaccatagc tctgtaatcg attaccagca acggaacttt 360  
ggaaattcaa attcaaaagt cataaccctt canatataac ttgtgaatcg attacacaaa 420  
ca 422

<210> 14643  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14643

aaagtttttt ttctttganc tcannaaaag gaacggcagg gaacagagac cgaggggtgcc 60  
ggcaggttgt tanntcttta acgngancc ggaggggcat gtccagtatc caccctccc 120  
cgcagaacca ccaattagaa tgcgtaacac cgaatattcg gaccgctttc ctcacaacta 180  
ttgggcagag gtagactacg tttactgtga aaactacat gaccacatga ctaatcagt 240



gacacaaaag aataataatt tttttgaaga ggcaagcaag atatgctctt caaaaaaaaa 300  
gagatttatg atgggagggg gctcccagga gtgggtaaca agacataata tacacccccg 360  
cggaaccttg ctcaaacata aaccctcccc agactcttcc attatgcc 408

<210> 14644  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14644

ggcttgctat cttggttata aaagaaaccg tctgtgagtc atatgagaat ttttggttgt 60  
acaacatatg cattagttga tttaaggact aagctggatg ataaatttgt caaatgtgta 120  
tttattggct atgctactta gtcaaaggca tacagactgt ataaccact aactggcaag 180  
ataattgtca atagaaatgt tgtatttgat gaagatgcac gctgggtttg ggaggaatgt 240  
gaaatcagta aaagtgttta tcagaaatca gtcagttntg atggttcata ggaggtctca 300  
aatgtgccag aaaatgatca cactccaagc cctcattcaa cgccatcaag ccagggatca 360  
ttaac 365

<210> 14645  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14645

agcttgntgt tctccattgc gctaaagatc gtgacaggta cgtttcattt cgtctacctg 60  
tggtgttcta ttgaatagct aggtttgttt ctggaacctt tggttaacct aaggaccttt 120  
tttggtttct ggtgcaagga ttgnggaact catggtgacc tgagacccat tgccgctgcc 180  
attgaatagc tgagtctcgc tgccattgtc ggtgttgagt ttgaggtaag ctccatgtct 240  
tcattgaaac tttgtgcttc cgcgtacgtg ctctttgtgc tcacttctct ttgaagcatg 300  
tntatgttcc catcgtaatt tgttcttatg aaaactagct ggtatagatt gtagttagtt 360  
ggtaattagt actactatac ggtttgaatg cacctattgg ta 402

<210> 14646  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14646

agctttgttt attgttatat ctgtccctca aacaaactct gcaacttagc atctgaagtc 60  
 tgggagcttt gagcagatgg gggtgttgat actggcgaag agggaaacacc agctgctctg 120  
 gacctgggtt tccttgccct tggaaaatta actatttggg cattcacatt ccaacatttc 180  
 cttttaatat aggccaaagat aatgaccagc ctcaggctct tgtaagcagt aagagcatca 240  
 gatccaactc cccttgacct acacaagact ttgattaaag ctgggaagcc taggcaagaa 300  
 gagttgaact gggccataat gggtatccct gtgactaagc cataaactaa cctagctctg 360  
 tcaatattca agttcgaggt gtgggaggtg ngagctangt tggagt 406

<210> 14647  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14647

agcttgagtt atgatttgaa tagagatcat cactaccaac aatgccttga agtaagactt 60  
 cattgggtgc ctgtgattta actgtgcaaa agtgaggaaa gaattcagag taaactccat 120  
 tatctttggc aaatttactt acacttgatg gatttttagt gattgagggg gcatgtaaca 180  
 agtaatgaag ataaagagga aaactaggat tagtagggga cttataagaa ggagaaccag 240  
 aaccaagaat ttttaaacct tcaccattac caatataaat ctgatctcat ccatcanagt 300  
 gaccaagctg atgaatattn tgtggttctc cagtcacatg gaatgaagct cccgagtcn 360  
 ggatccaggt tgaattagca ttgtccatga g 391

<210> 14648  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14648

agcttgctta atgatatacc acnnnnaaca aaagagggac gcgggggaaa caagctnnca 60  
cacgaccang cacanaccn caaaanaaaa agaggggggc gacaaggcct ccgataggac 120  
aaactcaacc acaaagagaa catgcaaaga aatacgaagg ccaccaaaaag caatgcgacg 180  
aagacatgcg caaacgactc ttgagaacat cacatgaaag cagagatagt ctaacatata 240  
ctcatgcaat tattcaagtg gaagaaagga gataaga 277

<210> 14649  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14649

tatcttactt atctgtnta aatccaagcc cataaataaa tttaaattcaa atctagataa 60  
gataaaagata agataagatc taattttgta gaataaaata gtctgcctc ttcaagtcca 120  
agcccaattc tggattcaag cccaatgctt cattaattcc tgaaattaga ttaaaaacat 180  
caaattatct gaatgggccc aaataataaa attgcctaatt taatttgaca attaagacta 240  
atcagtactt aaaatggtgc aaaaagggtt aagaaataag agaaaataat ggcacatcaa 300  
ccattcatca ggaaatagcc taagtatgct cacatgacat tgact 345

<210> 14650  
<211> 115  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14650

ncttctaggt ttcctcgaca tagaacctgg ccctctcttg gacattatac tttgtctatc 60  
cttgcaccat acatatatct actaatccta tgggaactac aaagatagcc ctctt 115

<210> 14651  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 14651

ttcttggtta tctccttctt tactacatca agaatcaccg ggttgagtct tctctgtggt 60

tgtcttactg gtttagctcc atcctctaaa tttattcgat gcatacatgt ggatgggcta 120  
ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaattgac 180  
aacaacttct cctcttggtc atcagcaagg gaggcagata taatcactgg aaaactcttg 240  
ctatcatcca agtaagcgta ttttaaattt gatggcagag gcttcaattc tgggtgtggtc 300  
cgctggacag tggtagaagg agatggtttc tcagccttta cctcataaag aaagtcagag 360  
gtatgtgtac ttcctgaaac atggtttagtc ctatctgact ctataaaaac aatctc 416

<210> 14652  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14652

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ccatcttcaa tntatttata taaaaaaaaa aattggtttt ccaatgcaat ggttgtatgt 120  
gatatatgat ataatttgct cttcattcta attactccct ctctaaaaca aattaggcct 180  
ggaaatataa tttcctgggt atatcttatt gaaaaagaac aattgtgagt ggctcttctg 240  
tgatgcttgg ctatgttntc atataanggt gttgcttctt taattaaatt ctttttgtct 300  
atctttcggg aagccatgtg agaatgtgtt ttatgctcga aaatgaatat cacatgcttc 360  
tatggaaacta anattgttgt ctagtttagc ctttggaaat ctttgaata 409

<210> 14653  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14653

aaaaaaaaatg ggttttgaat taatattcca ctaaaaatga ccaattagat tcttttagcaa 60  
aaattagttt tataataaag agtttttaca gtattcacta attagaaatc atgttagaaa 120  
taattnttaa agtatttatt tcanagtaaa aagaaattac tagtactgta cataataaat 180  
tntaattgat taatttacac tttactggta aaaaaatgcg tagagactac gggaacttgc 240  
tttggaaaat gatgatacga atggatgaag acaaaattgg ggatgtttgg tgtaggtatg 300

aaatatcaaa ggtcaaaatc aaagttcacc aaaaaagaag tcgaaaacca aaa

353

<210> 14654

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14654

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gaccaccgct ctttctttcc gcgatgtcc tctntatata cgcctgagtg ggtttatagc 120  
ctaaaccata cttcccacga tttcctttgg catttatcaa gctagttatg ccgccgttgt 180  
ctttgcctaa acccattccg ggctcgtaac catttcccaa cataactcgg gccatcatta 240  
ttgctgcata gggcaggcaa ggctgccag agaaggagtc cacagaggaa atgctgacca 300  
cctcaaaaga ctggatagcg gtttctaacy attcttctgc ggcttccaca taaggcatag 360  
aggatgggca gtcaccaag atgtcttctt cgcctgacac aatgaccaag tgcccttcca 420  
cca 423

<210> 14655

<211> 267

<212> DNA

<213> Glycine max

<400> 14655

cttaatccga catcagtttt ttcttatttt tcacatgaat atgaagctct cagatgctga 60  
tggtcatctt cgcaccacgc gaaggatgat cgacgaaatg gagagtccgc agaggaactc 120  
actagatcag gtacttcttg attatcagga tgcagctgag cgcttgccgt acttgaaaac 180  
aacctctctt ctttttgtcc tctcatggcg aacgggtggg gtatatata aatttaacat 240  
ccagtgagca tgagtccttg acctttc 267

<210> 14656

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14656

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tcattgtcat cgcttttttg tcattgaggt gccactatga gctgccatgt tctccacctt 120  
tgggcgtatt ctttgacaga atagtgcctt ctttttgac atgtactgta gttgcatcct 180  
atccgaagac attatactga cactgcctaa cgaaggaaac cactatgtcc tttcaagaat 240  
ggactccgga aggttccaag ttagtgtacc atgtaacagc taccagtaa gactttcttg 300  
gaaggaatgt atcaataatt tcttatcttt tgcgcatgct cccatcttgc cataagtcac 360  
ctttag 366

<210> 14657  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14657

actaagctnn caagaatgac atatgtttat gcaaagtgtg atatgtaaga attttttcta 60  
gtgcagcaat atatattcaa ggatgtagca atgctaagat atatttagtt atgtgacctt 120  
cgcaataagt ggaccataac ataatagaat aaaaaatatt gatgtgtgat agagcatttt 180  
tagtttatta ttttcatatt cttcttaggt tatttaacct ttttttactc ttattttctc 240  
accttaattc aattttggtc ttatgcaaat aattagactt acacaactca aaatgaatca 300  
tatgagtagt acctagaaag ctaaggaaaa gagctcgaat tttatcggtt atgagtttgg 360  
gcgaattcta ctttttttat gggtattctg ggcttacaag tcagcgcttc tataacttggc 420  
ttt 423

<210> 14658  
<211> 408  
<212> DNA  
<213> Glycine max  
<400> 14658

tacaagcctt agaggcagag cttgtagatc ccgtgattca aagagaagtt caagtccata 60  
gcggtcaatg tctgaaaaga gtatgattaa ctaatggacg tcaatatggc cacagccgat 120  
gccttggaaac gagaaacat gatggcccgga gaggaagaac acgaacagag cacagttgtg 180  
aggggcttta tatggcagca atagttagct caagctctga agaggtgaaa gggatcatca 240

cgggatcatat gcatgatctt gaaggacgag ctaaaggctc gccttatgtc gaacagaaat 300  
 ttgtcccaac agttaagcta gactgaaggg aatatgtggg ccattatcga tgagtgcata 360  
 gagaagctaa atctagcggc gactcacgag caaaggctag aggatgag 408

<210> 14659  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14659

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 ccactgcttc ctccaggaga atgttggtgt ggaaagcaac tacagtgttg taatacagac 120  
 aattcttccg ccaacacgta atgaccctgg aagtgttact attccttggt caatcagaga 180  
 agtcactgtg ggaaaggatc acattgattt gggagcagta tcaacctaat accactctct 240  
 atgtgtataa tgttggtgaga gcttggaatc atgcccacga gaatgactnt acaacttgct 300  
 gaccgatcca tctcaagacc ttac 324

<210> 14660  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<400> 14660

aacattttct acttacggg atcgaaaccc taatcctaca gatacctgtt gatacggcct 60  
 tctactgaca aagagaggcc gccagagacg ccaccattgt gcggagtaag cttttaccat 120  
 gtgcctattt atgtaaacaa catgtatata ttggtagtag ttcacgctca cgcaaccacc 180  
 ctctgcaata atgtgtcaac atggata 207

<210> 14661  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 14661

agcttgaatg ttctataaga tgagtggaga acaaaaacta cccctaatac aaaaactagt 60

ctacgtgccc taaaatacaa gggctgaaga tcttacatta caagggtatc ctaaacttgt 120  
 ggggtaccct ccttacatta tggagcacta aatacaaggc ccaaaaaaat aatgaaaccc 180  
 taatctaata tatacaaaga taagtgggat cataacttagc ccataagccc aaaatctatc 240  
 ctaacgctca tgagaaccct atggtcttct cctgcatctc tagcccaatc ttcttggagt 300  
 cttctattca atgcccttgg agggtaggat agcatcatta ggggtgccta aaagcaagat 360  
 attcactatg gtact 375

<210> 14662  
 <211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14662

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 cgagcanntg acgttagctc actataagag tactanggae tatgtatcat ttttactctc 120  
 naaacnactg ccttgcctga atgactctga tgggcctact tacaagggct ataccanagg 180  
 aagccgatga aactctctca catgtgctgc tcaaactatt tgaatacaag gcctggcttc 240  
 atcaagaaac gaccaatgtt tacttgtatc atggccctca tggacgatga ctaaattggcc 300  
 ccccttcgtc tcaatataac aatgaaaagg ttgtctaaat attggcccag ttcttgtcca 360  
 atggggagac cataaaaatg ttctgtgtta atcaagtaaa caggctttat tattgttact 420  
 tctagaataa gtatggcaca atttatacac aaagctcttt ctttcggaca ccaatcgttg 480  
 taactagggg ctaggggggtg gacaaaaaca cggcacattc n 521

<210> 14663  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14663

ttcttgagag ttttgagaga atttattgtg tgaagatctg cagagaccag agcttgaaga 60  
 ggaagctgtt ctgagagctt gagatgagtt tgtgagtggg tgtgagatcc tagagggtgaa 120  
 tgagacatcc tcaccacttg tatttttgca atctttcatc tggttcttct ctctattgta 180



aaggaggctt cctgggtatg gaaagctaan atcctctgtt ggatcttccc tgtaggtact 240  
 taatgtaa atctttctat ctatataatg atgtgttatg tgttctctgt gctatctgct 300  
 cttcattcta gtatgccttt accttgatca cgtagatgca tgctttgttc gggtcattca 360  
 cacaatgaaa ctggccttat tctgatgac 389

<210> 14664  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14664

acacataaaa ctcagcttaa cgaccacact aatccacaca ttganccatt ttctttggat 60  
 cccacttaca ttcgacgttc tggaacattg cacaactaca cgcttgacac agtgcttgta 120  
 cagagctcat ctccccgca gcacaaaaca aattagttgg aaaaatgaaa taactgtgtt 180  
 aagctagacc taaaaacgta caagaagaac tgtcgtttgt ttcactaact aaatcaaata 240  
 acatgttttt gtagcttata tatatcatta agaaaccagt caacagtacc tgaaggaagt 300  
 gaattgtctt ttaatcgagt cagaaaccag tatatatcat ttaagatatg taagagagt 360  
 ttgtcttttc agacaaatga agcattagcg aagcanagac acatcatcat gttgtgcatg 420  
 tggaggtggc gggagctgaa ctgcgtattc attatatgtg gg 462

<210> 14665  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14665

cgccagattg ctatacatgg attctggtat tgtgccattc tatttattat gatagatgtc 60  
 aaggtttgtc aagtgtatgg tactcaagta tgaaactagg caatccgcca gtgaagacat 120  
 tgagatctaa agcaagatga gttaaggcaa ggcattccag aaacatattc ttacatgcga 180  
 atccaactac gaattagttc agccaggttt tgttgatatt acgcatagag gtaaagttaa 240  
 atataggaaa aatataacta tatggtgtgg tccacgtccg ctgtggtatg tagtgattat 300  
 aattgaattc cttgtttttt aaaccacat aatgaaggtc tttggttctc tgacggcaca 360

atgactccaa tttccatgca tgaagatcaa tgcactagta gggtcatggc actaagatac 420  
 aanaaaaaaa acaaagagtc tatcatttta cttca 455

<210> 14666  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14666

gcttataaga acattattgc ctcaatcatt tccaaatatg catgtgaatt atgaagcatc 60  
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca caccaaatga 120  
 ttatgatgat ggatggctca nattctcaca aaggtaaact catcactttc aaattgagct 180  
 ctcaaaacta tcatgacatg taaaggagaa tcaaggattt caagtcacaa aatgtcaaga 240  
 acttttattt tcaaaacaat taccattttc ttgaacatat cctataattc anagaanaac 300  
 atgcaaagtc gtacatgcac acagaattga ccanaatat taaactagaa atccgacgaa 360  
 actaacaaca ttaacaaatt aacacaacta acaaattaac aaaaccaaca aaacttgtaa 420  
 aaccaaagaa cacttcccn ccccatact taaacaacac attgtcctc 469

<210> 14667  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <400> 14667

gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtgactggga 60  
 aaaccctgtc gttacgcaac ttaatccct tgcagcacat cccctttcg ccagctggcg 120  
 taatagcgaa gaggccgca ccgatcgccc ttccaacag gtgcgcagcc tgaatggcga 180  
 atggcgctg atgcggcatt tactccttac acatgggtgc ggtagggtggc accatatacc 240  
 gcgcactcgt aggccaatct gctctgatcc cgatatttat acccagactt atggccgcct 300  
 ataaaaacga cgactcgaaa gcgttgcaga ccatttgaa tcacctctgt gacccatgat 360  
 attggaatga tcagcgggaa aaaaaaacct attgcctact tagccattcg 410

<210> 14668  
 <211> 427

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14668

agcttctccc tcaatttcct ataaataggg ggagaagtga agtgaataag ggttcacccc 60  
cttaggcact tctctctctt cgaattgcat ggaaaaatat ttccgtgatg aaaatctaag 120  
ccgaggcgct tccgaaacgt ttccgtaatg ttccgtgag gaatttcgca naggtttcga 180  
ccgttcttcg acgttcttca ttcgttcttc atcgttcttc gatcttcaac gggtaagtac 240  
ctcgaaccaa gcttttcgat tcattctatg taccctgggt ggtccacatt gtgtttcgtg 300  
tatttttatt ctcgttttat ttactttgta taccctcttt tgacgtgctt aagtcanttt 360  
atttaagtca tttctcgctt aaactaaaaa taaaataaat ttccaccgat cgtttgaatt 420  
gtattat 427

<210> 14669  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14669

ntgacttcgc tcaccactaa ctactagggg attcctcatg cttactctct aaactactcc 60  
actaatggaa tcactctcatg gttcacttaa aaatatatta ctagagggtg aggatcaaag 120  
tcctacacat ttctaactca ccttggtcga aacaagggct tgacatcatc tcacaacaac 180  
atgtgtattc ttgacaagaa catctcatac tccctaatac acacaacaac atcctactaa 240  
agaaacatat gaaatggaat caaatatctt aaaattgatt tccaccaatg aggaagtaat 300  
aaaaatagtc attgagaata aggaaatcac tatatgtttt tttcatcttt agaaataagt 360  
tctcacagaa tttatagaaa agtactttat acatcacaac taact 405

<210> 14670  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14670

agctttatta ttatagaata tccaaggaga atacctggat ctgacttatc atcaaatttt 60  
cctaagttat cttttccatt attcaatata aaacatttac aaccaaagat ataaagatgt 120  
gagatgtttg gttttctgcc attgaacaat tcatatggag ttntctttaa aatgggtctt 180  
attaaagccc tatttaaaat gtagcatgca gtgttaacgg cttcagccca aaagtatttt 240  
ggaagaggag tatcatttaa taaagttcta gcaatctctt ccaaagatct atttttcctt 300  
tctacaacac ccatttggtg agggtttctt agtgcagaaa agttatgctc aatcccatgc 360  
ttatcacaaa ataattcaaa ttctttatct tcaaactcac ccccatgatc gtcctaata 420  
gatataatct ttag 434

<210> 14671  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 14671  
aaaatttgaa acctgtatac atcatttatt gggatttggg gacataacaa tcaacatgca 60  
aaggagaaat ggaagaaaac gcataacata gaacacaaaa taaaagatta agaaataatt 120  
tagaaaatcc ccaacaaatc gaaatggaag aaaacgcata acacggggag ggaaaacaaa 180  
gaaagcgcca tcaaggtaga agaaggatca tgaacaccca aacaattaac caaaaaaat 240  
cgcacctgtt gtgataaaaa tctctgcttt ttttgagata aaaatcaaag ctttagtgtg 300  
ttctttgggc ttctatgcga aacaaagtat gagaaggatc atgaacaccc aaacaattaa 360  
tcaaaaaaat taagctttga aagaactaca aagaaaacac acctattgtg ataaaaatcg 420  
ttgttttttt ttaaagat 438

<210> 14672  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14672

agcttctctt acatccaagc aaaacaacat tcaaacagca caagctatca cagccaagca 60  
naacagagca aaggcagaga actctgccaa aacaccaacc aaatcacagc tggtctcact 120  
tagagacccc agtaacaatt ccttcgttcc aattcgtaa ccgttggatc gactccaaaa 180

ttntactgga agtctatagt acataagcct atattttgac cgttgggatc tactagcaaa 240  
tatccagaac tcattctgca ctgctctttc cacagccaac cacacacaag catttttctg 300  
cacaagccaa aatcctgctg cacctatttc acagcaaaaa tctgcacaaa gtgcagattt 360  
cgaaaatcac acttcccctc atccaatctt gcccaaatca attcctacaa gtaccaaatc 420  
atgtatcaat catg 434

<210> 14673  
<211> 500  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14673

naacctggtg nngcctanng ttcngaanct agnnnnannnn ngtcgagnan cnatatngng 60  
ataataanaa tagagataan agtnttgngg tatttatatc taactgtcta tanggggagg 120  
atcgttgagc ctataatacc aaccatanca atcaatggat taatttngta ttaaagnaag 180  
aaaaggtaga acatantact tttttggtgt aaagatatat gagatgtatg gaaagtgaag 240  
gggaaaatgg agaatcctga cgcttgctaa acggattggg cgagcaagtg agagtgaaaa 300  
cagatatgat gaagcattgt gtcattatat tgacacacat gaggcaatta ggggtgccct 360  
aacgggaaag aaatgaggtg atctatgata aacggacaga tacctaactc cgatgtatcg 420  
agagcattga cttcaaaaaa aaaggggagaa tctacatgtc gatcggagac cataactaac 480  
agaacgggtt ctgattcacg 500

<210> 14674  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14674

agctnttata ttatgtngac ctcgagtgtat tatgggttgt cttccatggt tcaatcgtac 60  
gtagcttggtg tcttcttcac agatagggca tgcacgatgg cccttaacac tgcattccact 120  
caaattcttg tatgctggan agtcattaat ggtagaaaat aacattgcac acaatgtgaa 180  
tgtctcattt cgatacccat caaacacaa aacttccttg tcctacaact ctgtcaaggg 240

ttcaatcaaa ggactgagat aaacatcata gacaacatca attatTTTTta cttcatgcac 300  
 taccaaggag gtaagttgta aattactagc anaacaagtc acaaactatg ctgagttctt 360  
 anatngtcat agggattcat tccatcact 389

<210> 14675  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14675

agtggtcgaa gaaacacgtc attgctcgtc gtggctaaga gtgaaacaca atagacagca 60  
 ttatacatgc aagcccatc tgacttagtt tcatgaacta ccaacatata aggtctggca 120  
 gtgaaaacct atctataaag actaatacac actgtctoga tcgataatct atgaacatct 180  
 agaaagcttg ctattggaga taatgcaacc gccaatggtc tagaccacat caaggagagc 240  
 aaatattaac ttacacaacc ttgagaaagt ctatgtntan aagagaacaa ttggacagag 300  
 tctatagtcc gcctTTTTTT ttttttgata atcatagtgt cttcaccgga agaaacgaag 360  
 tggaaactca tccttaaadc gtggtagtaa aaccacatta aactcaaac catactcgac 420  
 t 421

<210> 14676  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14676

tctagttaaa ttgattacca attatTTTgt ttcgattaca tagnnnaggn gagaccatgt 60  
 gTTTTcatga gtctctatTT taatccatta tcaggtgatc gtaatcgatt actatgttct 120  
 tgaaagtatt ccaaggagtg atcaagaaca cTTtaatcaa ttaaataag aatctaattg 180  
 attatattat tcttgatagc tttctagatt ttgggaagaa cactttaatc gattaaaatg 240  
 ggaatctaat tgattacttc ttcgagataa tcgattacct tggcaatcta atcgattaca 300  
 agcagttata attgttcttt ataaatagtc acctgtgtt ttcactttga catgatttga 360  
 ataagtgttg taaaatgagc atttgcaact cactcactct agtcttcggt tctaaagcat 420

tcatggntaa agtga

435

<210> 14677  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14677

agcttggttat tgtttcacga aagctctcga gaaattcaga tggtcataac tnttcatacg 60  
gaagtctgat tcaggtgcat aatataatcga gaagctcgaa attgaagcac ggaagctctc 120  
gagaaattga aatgatcata acttatgaca cggaagtcca attcagggcg ataataatc 180  
aagacgctcg aaattgcaca acggaagctc tccagaaatt caaattgtca taactcttca 240  
aacggaagtc agattaaggt gcataatata tcgagaagct tgaaattgaa caacgtaagc 300  
tctcaagata ttcaaatggt cataactgtt cacaacggag tccgattctg acgcataata 360  
taccgagacg ctcgaaattg aacaacggaa gc 392

<210> 14678  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14678

cagctnctgc tgctctgct tcttggttag tctcctctgc ttctgcaatg gcagctgctg 60  
cttcagcaac tgctcgagca gcaaatgcag ctgcctcttg tggagtcata gaccttatct 120  
tttctaactc taaatctatc tgagatctag taaggatgtt ggtctcatcc ctgtcaattt 180  
tcatagaggc tttatgcctc ccttccaaat ataacacaga tgagtttctt cttctgtcag 240  
aatatgctgc tataggtgca attctatact tgcgatttac ctgaaatacc aaagtcagcc 300  
ctaaagtaag atctctaata gaaacaactt aatataactc ccactcaaaa tgagaacatt 360  
cagaatactt gtcaagctca cgtaaaacca aatgactaat aacattaaat caagacagtg 420  
gagttcctga aattatatta tataaaa 447

<210> 14679  
<211> 377

<212> DNA  
 <213> Glycine max

<400> 14679

ctaacacatc tattcaacac ttgttgatcc cataagagtt accaatgtcg cgtatagtgt 60  
 aatgcaatgt attagttgag attcactaat aaagttttca gcaccagggtg aatatgtttt 120  
 agtcacatct ttagctttct tttctttttt gccagacaga aattattata aacacacatg 180  
 tggaaaaaga agtggaaaca agttgtatag atatttttcac ctcaacacta tttttggttt 240  
 tatectaata tttatcacc cttacttcat tagaaaatta taagaattat aattaattac 300  
 caaattaaaa caattactaa tttattgtac taaatattct tacttcaata gattacaata 360  
 ataactttca ttttttaa 377

<210> 14680  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14680

tctccaccgn cgncaccatc atcttaaaat tttattttta tattatgagn acnnngatnn 60  
 ggagccttgt attttggcta tattactatc gtattngaac aatntactat tttcctattt 120  
 tgcattggtat gtttgaacaa atattaagtt tgttgataga ctatatgggt tgtatagtta 180  
 atctatttat gaatgttgct tcatgatact tgcttcatgg attggttggt agtttcttaa 240  
 tgaatgccgt atggatgttt aattatttca aattttttac gcactttggc tttttgttga 300  
 tgccaaaggg ggagagaaat gggattaaat caagaactca catgagtaat caacttaatt 360  
 t 361

<210> 14681  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14681

agcttggttat tttggaagan aagaataccg caagtaggcg agatgatgaa tgacagccaa 60  
 cacaatacga atgaattgaa agcctcatat tcaaaaactt accgattgat gaccgaagaa 120



cgaacgaaca acggcgaaga atggcggaaa atcttcatgg aatcgctcat ggaaatgtct 180  
 cggaagcggt acggaagcac ctgcacttgg atttccttcc tttgttaact tcttttcgct 240  
 aaacaaaact aaaatacaca gcatagaggt cagggggccct tgaaactcag cctcctcccc 300  
 ctatttatag gagataatgg ga 322

<210> 14682  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14682

gcatcctgat actactgtnt gtttatgtga aatctaactg gaagtgcggt gggtcgtcga 60  
 gtaaataatt aaaacagtgt gaatcgagta tcgaactcag ggaacttggt ttacatggaa 120  
 aagcatcatt cagtaaatat gaatttacgt aaagaattga ttatcatgaa gtaaaaatag 180  
 aagtaattct attctaagta gaagcagtaa ttgtgagcaa gtgagtgtga aaacagatat 240  
 gtaaaagcat tgggtcattc tactgagata cttgatgcaa ttaggggtttt tctctacttg 300  
 aaattattta tgtgttctat gatgaaggga caaataccaa acaccgatgt ctgcgcgagtn 360  
 tggcctaatt caaataaact tcgttctcaa atgtctgttg ttgaacttag cctaacagaa 420  
 caacattaca attac 435

<210> 14683  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<400> 14683

cactatccat gttcacacat tattgcagca tgtgggttatg tgagcatgat ctactaccaa 60  
 tatatagatg ttgtttacac caatgaacac atcttatgag catactccgc acagtgggtgg 120  
 cctcttgaga atgaagcggc aattcctcct tctgatgagg catggacac 169

<210> 14684  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 14684

actccgcttc aggttgctaa ttgctccagg ttgctgcacg gaaggctaata gtctgtatgg 60  
tggtcagcag aggagcacag accacaaacc cttgcgacag gtacagattt ctgattcaag 120  
gccagctggg ttaccaagtt gaccaacgca tccagtttgc cttcaagctt cttagtttca 180  
gatgatgcag atggggttgt agctacctca tgcactcctc taatgactat ggcatcattt 240  
ctggcgctaa actgctggga gttggaggcc atcttctcaa ttaaatttct ggcttcagca 300  
ggggtcatgt ctccaagggc tcaaccactg gcagcatcta tcatacttct ctccatatta 360  
ctgagtcctt cataaaaaata ttggagaaga agctgttctg aaatctgatg gtgggggcaa 420  
ctgacacata gtttcttaaa tctctcccag tactcatata ggctc 465

<210> 14685

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14685

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aataatcttg gaagtcattg cttccacatc taagtctatt ctatacatgc cttgaaatgt 120  
catgtatgtc tgtcatttgt aacatataag agaaagaaca acatgataaa aatgacagaa 180  
aatgaacgaa aaaagagtta ctttttgttg atattgcacc tccaattgca catccactca 240  
acaaagcaac catttattnt cttccccaat cttttttatt ttttttctga ttagaaaaaa 300  
aactaaggaa ctatagtaga acaaagccta gataataata ataataataa taataatgaa 360  
acaaaaccaa aataattccc aagttttctt ccctaatac 398

<210> 14686

<211> 329

<212> DNA

<213> Glycine max

<400> 14686

gcacatgggt cgcgtgtatg atatccactc gatatgtttt atttttatga gaccttcaat 60  
cctataaggc atcgtgacag acaaaagtgg gtacttaact cgaatggcca ttattgtcaa 120  
tgcggaaggt attccgcgct acactatcca tgtacacaca tgattgcagc ttgcggatac 180

gtaagcatga actactacca ctatatagat gttgactaca catatgagca cctcttagaa 240  
gcatactccg aacagtgggtg gcctctgggg aatgaagcga gaattcctcc ttctgatgat 300  
gcatggacac ttatgcgtgt cgcagatac 329

<210> 14687  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14687

caaacgtctc gatatattat gcgcccgaat cggacatccg tgtgaaaaat tatgaccaat 60  
agaatttcta gagagcttcc gttgttcatt ctgtagagcc tctatattgt atgcgcttgt 120  
atcggacatc tgagttaaaa gttatgacca tttgaatttc tcaacagctt ccgttgccaa 180  
attntgagca tctcgatatg tgattcgcat gaatcagaca tccatgtgaa aaggatgac 240  
catctgaatt tctcaagagc ttccgttgtt caattatgag cgtcacgata tgtgattcgc 300  
ccgaatcgga cagtcgtggt gaaagttatg a 331

<210> 14688  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14688

cgatatatta tgcaccttaa tcggactacc gtgtgttatg tttgaccatt ntaatttctc 60  
aagagctggc gttgttcaat tccgagcttc tcgatatatt atgcacctga atcagacttc 120  
cgtttgaaaa gttttgacca tttgaatctc tcgagagctt ccgttggtct atttcgaggg 180  
tctcgatata ttatgcgcct gaatcggact tccgtgtgat aagttatgac catttgaatc 240  
tctcgagagc ttccgttatg caatttcaag cttctggatc tattatgcac ccgaatcaga 300  
cttccatttg aaaagttatg accatgtgaa tctctcgaga gctttcgtcg ttcaattttg 360  
agcgtctcgg tatattatgc gctgaatcg gacttccgtg tgacaagtac tgacca 416

<210> 14689  
<211> 435

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14689

gttgaggagaa tcaaattcctg gaggctgctg catgtagact tcttcttgta gaatgccatg 60  
gagaaagaca ttgttcacat ccagctgctg tatgggccag tgataggtga cagccaaagt 120  
gagaagaagt ctaacagtaa taggcttaat aactggtgaa taagtttctt gaaatctgtg 180  
tcatattgct tgagggcaag gttgattgag gctgtgattt anatgaagag gaagagggaa 240  
agaggtcata nggaaatctg gactcattga acaccacatc cttagatatg tagattctgc 300  
cttcagaaga aagacattag tagcctttgt gcgtaggaga atatcccaga aaatgcattc 360  
ttgagactga attggagttt attcttcttg tangagagga anacaactag gaagtctatt 420  
aattaaatag acact 435

<210> 14690  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14690

tcaagcttta aaatgtanat tcaattctct aaaagttgtt atttacaatt taaacttctg 60  
gtaatcaatg acataccttg tgtaatcaat tatagccttt cacaatcaaa ttcaaaattt 120  
gtcaaaactgt ttcaaaattc aatttggcca ctggtaatcg atcagagaga aaatatcata 180  
tttttgaaat ctcaaaaga ttttgtaaaa tctcctttat ccaaacctgt gttgcatcag 240  
attaacgaat ctatctaaga tcttatgaac taagtacatc attcttcttg aatctctgga 300  
ttcttgactt gaattgcgct catctctggc atcatcgaaa cttcacatca tatatgcttc 360  
cacactggta gcaaccataa tgtcaaccta acattcaaga gtcagtgtta tatt 414

<210> 14691  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14691

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catcacctcc ctagctactc cctcagcatt ggccacaccc tcccctacaa taactgtggt 180  
tttctctctc accaactcac tcagcacact agttacatca ttattgttaa catgggtctaa 240  
attacgcttc gtgaaggagc cagcagcaac ttgaccaaaa ggtccagatg atggagacac 300  
attattacta ccaccaagaa caacatgatg gtgcttggtg atattntctt tggcatggct 360  
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<210> 14692  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14692

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ttcaactgag ctacgtactc cccacgtagc ccttatcctc gttcctctca acaccgggtc 180  
cgcacatc catccaagca ttcacaacat ccaagcaatt caacatgcaa acatcatgaa 240  
ctatccaaac caagagaata gggccgaggc aganaactct gcccaaaaaca cattccaata 300  
ccacagtgtt cctcactcaa ataccccagt aacattctct tcgttgatgat ttgctaaccg 360  
ttggatcgac tctaaaattn tactggaggt nctagtaca taagtctaca tgttgaccgt 420  
tgggatctgg ctataaacgt ccataaccca atat 454

<210> 14693  
<211> 454  
<212> DNA  
<213> Glycine max

<400> 14693

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taacacctac aaagagaaaa agttaacaaa tgcaatcaaa gataactata taaaaagcat 180  
tcatggatga atttagttac ttcctcattt tctttctctg cttttgatat cactagcttt 240

aaggaagcac ttaattaaga caaaagtatg cttatcagtt atgacaatat ttcttgcaac 300  
 taaaatagag aatccatggt tccccctca cgtaattcat gtcaaacat tctaaaatat 360  
 ttagtggttaa aaagcttaat atcatgtgaa aattatatcg tgaatacgat cttatataca 420  
 aggggttgtgt cccagtggtca cttgaatcct atat 454

<210> 14694  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14694

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 ggttaaccaa ggcattctatt ttaccttcaa gcttcttagt ctcggctgat gaagatgaat 180  
 tcgtgggtac ttcatgcaat cctctaata caatagcatc acttctggcc gtgggtcctgg 240  
 aagcaaggaa atttttttct aagaatactc tcttgaggtc atccanctc gtgatagacc 300  
 gtggagcaag gtaataaagc cagtcctttg ccactccctc taaagaatga ggaaaagcct 360  
 ttagaaatat gtgatcctcc tgcacatcta ggggtttcat ggtggagcag acaatatgga 420  
 attctttcag atgtttgtat ggggtcttcac 450

<210> 14695  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14695

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 cggaagcgcc tcggcttaga ttttcttcac ggaaacagtn tttccaagca aattcgaaag 180  
 agagaaaagt gcctcagggc tgaaccctt ccttcttgca ttctccctt atttatagca 240  
 aaatagggga ggtggttgcc gccagctcg cccaggcgag ctcagctcg ccaggcgagc 300  
 aggggttgctt cctccagaag caaccgcctt ctggaggaat attccagagg gcccaagtgg 360

gcctgggtgc tatttgcacc cccatatata ctangtacac cncctctgc tgtttttggg 420  
attcttttttc gtaag 435

<210> 14696  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 14696

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ttttggaatc caagctaatt tctctgggat gacgaggcga tttttataat aaagtacccc 180  
ttgtctatat acaaatccag cattgatctt ctccccctgt cctttgttca cttcttcgat 240  
tattgttctt aacttctcat ctgtgtgcac ctcatcattg atttcttgcc aatccaacca 300  
taccgggaag taaatcacat tgctcagttt catttcatct ctactacggg acaaatcatc 360  
agcttgtctg tctcctttcc agcttataaa tatctcaaat tatacccta 409

<210> 14697  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14697

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attcaaattc gttctactct tgtttttgaa gttcatgtta ttgaaaataa gttattgtat 120  
cttgtaccag catgttaatt ataaattgca ttaattatct caatgtatct atttggtaaa 180  
taactgtata gtgtatgcat gtntgaatta actcttttat ttaatagaaa atatagcaga 240  
aatatatgaa catttttttaa cagaagagtg tatgttgaat acaatatata tgaatgcaca 300  
tatttgcacg ccacttngat ttagttttcc ttacatacat acatgatata gtgtgagtg 360  
cgtaacatga gtaaaacaaa aaacaatgtc ttttttttta atcatgt 407

<210> 14698  
<211> 384  
<212> DNA

<213> Glycine max

<400> 14698

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tctctatctg ggtatcccgga ttggttcata cccaaggggc tcaaagctgt gggatcctat 180  
tgtcaaaaaa tgtgagagga aattggtgaa atgaaaacaa aaattatctt ttgggggaag 240  
ggttacactc ttaaagtctg tctaaatac tattgcgata tactatcttc tgtttttcag 300  
ggctcctgca agcattctgt atagactgtt catggcacac gagtgggtttt tgtgggggtgg 360  
aagggcatat cgtatcatta tatt 384

<210> 14699

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14699

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gcaacatgtt atccccctctc tcaaacaatc catgcacatt tctttctcaa tggaacacca 120  
ttcccacact aaatcttcaa cctatcaatc caattggaat tctcaaatac aactgttcta 180  
aataatcata ttgcgcaaga atcttagaat gtgggttttag gcctaactca accccaaaag 240  
ctagctcata cgatgagggt tgccccact tatatactct atattggcct tatccctagc 300  
taatgtggga cttgtgttnt tcacaataca ccnctcatg cccaacactt ttgagcttgg 360  
tgcgtggata atat 374

<210> 14700

<211> 182

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14700

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angaacactg taccacagag tattgtaaac attgcattct gcgtatgaag catagaggcg 120



acatatgccca tgcttgctgt tcaaagtaga ctatgaaaga gcataccact ccgtctcgtg 180  
gg 182

<210> 14701  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14701

ttcatctttt catccctctc ccttgccaaa agaattccca aggactactg atgcaaccta 60  
ccccgcaggg cattggataa agaccagta gaatgggcca agatgcaaga gaagccctag 120  
gttcttatga ccttatggta gatttcggcc catgggataa tacgagccca ctatctttga 180  
aatatagata aggttcatta tttggcctgg atttaggctc atatgaggag ggaccctaaa 240  
ataangattt tcacccttgt atttagggcc ctaacagttt tgtatanggg agtttgtaat 300  
tacatgcact agtggatatt gatgggtggg ggaaaaaatt aa 342

<210> 14702  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 14702

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taagttctga atcgacaaat gtaacagttg ggctaagctc ggcagttgga ctaaaccgat 120  
atccaccgtt aagcgcagct tcagagcgct caccgcatag gagaatctag caaagcatga 180  
acatcaaata cgcgcactaa gtgccagatc attgcgctaa tcgcataaag agcctttagc 240  
caggctaagc ttgagactgg cgctaagccc tatttcactt actcacgcta aaca 294

<210> 14703  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14703

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gagatcgaag tactatggag aggctgagaa aatgctcaga ggaagtataa tggtaactgc 120  
ctaaggcagt cgccttattt gatggcagat tcgaatgact cgctgagcgc atggacacgc 180  
taagcccaat acaaaactat gaaattccat agaagttttt ggtcttagcg cgaaggtaca 240  
cgttgggtga gatctgcac tgtgataggt cttgcaactc tcgcttagca agccgcagcc 300  
actctgagcg aataaaatgc tccttanatg cagtagtga ctgtgcgtaa tgcacgtgc 360  
tctcttaacg cta 373

<210> 14704  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14704

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agcaagaagc cagcggtaag tttggacagn acngcgtgg gtgatatgtg tganacaaag 120  
atcctctccc actctgtgtc ttatgattga caaggttact aaggatcaaa gttaacttgg 180  
cggcgcacaa tcatgtgtta tgatccttac ccgtgagaaa agacattgtt atatacatga 240  
tatggatctt atcagaggtc tgggagctgg agatggaggg aacccttcgc tgctgtgatt 300  
cctagtaaat ggtataccaa caactgcgtg tatcggcatg cttatcatat ggtagaact 360  
gaagtaagga agaaaatata tgaccacctg ttaggcagtg cantgtgaag acccggatcg 420  
ggtgtntgct attgttgccg tccaccc 447

<210> 14705  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14705

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aaccagctcg cggggatgcg caccctgtc gggaggcata gcccttgcc cganagaggg 120  
aagtgtgtg tgcagagac cgttgtctcc aagggaaggg agatccttat tttatataac 180  
ccacatgacc agcagaggag tgataatgtt gggccatttt ctgctatcta cccccacc 240

acactacat cccaacatct tgagacctta atgaagggaa ttacggaccc aaatgggtcc 300  
agcatgcac atacac 316

<210> 14706  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14706

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aaangccatt ccctgggttat ggggttgaac caagctcatg ctttttcgaa aaaagttcat 120  
caaatacaagt tgaagaatgg aagtaactat cttgcaaaaa ttggggcaaa agatgaatcg 180  
agtcacatca ctgcttcgtc tactgcaaaa catatttagg attgttgatg ttcttggtac 240  
ttccagtttc accttgacaa agatgtcata gaccatgtgg aaaatctaaa ttgattcaac 300  
cccatatcct gcacaatact tcaactgtac atcattcgca tacatccatg ctttttcattg 360  
gttgcatcgc tcattgcatt ctttccttga aaaagacaca taaaataaat aaataaataa 420  
aatanaatca aaatgatctt aatcattggt a 451

<210> 14707  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14707

gctggatcat ttttatccac agtgctntat tgaatgctgt ggttcacagg tagagacctg 60  
actcacacat gttacatctt cctgttggtg aatgcagaat caccttggan agtgttgctc 120  
ttcaacttga tttatgcggtt aatggacgac tagttactag tgcaacatat tatgattggg 180  
aacaatgtg tgcaacatat ataggtgttg ttcccccaaa gaatgcattg gtgggatcaa 240  
agcttaaaact ataatgggtta atagataaca tgttgactct cccaacagaa cccttaccac 300  
aacaattagc agcccgttgt aggcatacat tatacggttg atttatggtt gttgatgcta 360  
aacc 364

<210> 14708

<211> 431  
 <212> DNA  
 <213> Glycine max

<400> 14708

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 atgtactaga ataaacaaac ccacaacttg ggcttatgtg acaaaggtaa tgtgattatc 180  
 gtcattgttt attacattat ttgaattaat caaacaggaa taagaaagtt ttgcaaattc 240  
 tttttttttt tttctcaatc tgcattggcct gattatggga acctaattaa ctggttatgg 300  
 gttctgatgt gtgttatgaa taatgggtgat agataacata agagtggtag tggtaggttac 360  
 cagagcaatt tggaacatt aaattgtggt gtaaagtatc cctgattgtc ggcgaaataa 420  
 tgcattgtag t 431

<210> 14709  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14709

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 gaatgtcatc ttgtgatagg acgaccagcg aagtgggaag agctaccgat gttcactttc 120  
 ccgtctctcg acatattatg cgcccgaatt gtacatccgt gtgataagta ttgaccattt 180  
 ggatatgcga gagcttccga tgcttaatgg cgagcgtatc gatatattat aagcctaaat 240  
 cggacatccg tgtgaaaagg tatgaccatt ggaatttctc aagagcttgc gttggacaat 300  
 ttcgagcttc tcgacatact atgcgcgcga agcggacatt ctagtgagaa ggtatgacca 360  
 tgtgcatatc tacagaactt ccggacgtta atttcgagcg gtgcgaagtg atataaacct 420  
 gattcggacc ctctgctgac aagtatgact ctatgatttc ccagagctcc gtgtcaattg 480  
 cagcactcga ttccaatgga tct 503

<210> 14710  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14710

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 gagaagagaa ccctaaaaaa tttatgccta tctcccaaat gacgatcttg tcctctgtaa 120  
 cttttcaatt catccgcgct agtgaaaggg tgattctgcc tttgtacagt gaaatttgct 180  
 gcatctctag atataattaa atgtaaaatc aataactaaa tttggatgca aaaaatcata 240  
 atcataataa tcattttttt atatagaatt cttgaaaggg aatggaatgg cctcaaccgc 300  
 atccttttgt aacaacttgt ggaaatgcc a tgtgcaacgc tcaccacata atattctcta 360  
 tcttttccta aatagcaatc tttctctgcc aatctcagaa aagaaattat actttctatc 420  
 ctaacagaat atactata 438

<210> 14711  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14711

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 taagggacgt caatatggcc accgctgaag ccttggaacg agaaaccaag aaggcccgan 120  
 aggaagaaca cgtgccagca aagttttgag gggctttata gggcagcaat agtaagctca 180  
 agctccgaag aggtgaaagg aatcatcaag ggtcaaaggc atgatcttga aagacgagct 240  
 aaaggcttac cttatgtcga anagaaattt gtcccaacag ttaagcgaga ctgaagggaa 300  
 tatgtgggcc gtcacgatg agtgcaaaga gaagctaaat ctagcggcga ctcac 355

<210> 14712  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14712

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ctggcttcag caggggtcat gtctccaagg gctccaccac tagcagcatc tatcatactt 180  
ctctccatgt tactgagtc ttcatagaaa tattggagga caagctgctc ataaatctgg 240  
tggtgacgac aactggcaca taatatcttg aatctttccc agtactcata ctagctttct 300  
ccaccaagtt gtctgatgcc tgaaatgtct tttctgatgg cagtgggcct agatgcaagg 360  
aagaatttct ccaagaacac ctttctaagg tcatcccagt tgaaaataga cctgtgagca 420  
aggtagtata gccaatctct tgccactccc t 451

<210> 14713  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14713

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tcctagagaa gctagagcat agctacacac acccatgtat agctaagctc acctccttga 180  
gatgagaagc tagagcttag ctgctacaca cccctataa tagctaagct ccccccatg 240  
caaacatata tgagaataga ggagagtcct tactagaaag actactcana attccctgaa 300  
atacaaggct aaaaccctat actactatag tggccaaaat a 341

<210> 14714  
<211> 457  
<212> DNA  
<213> Glycine max  
<400> 14714

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cctttccttg ttgtgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120  
ccttaaggaa ttttgagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180  
cattggacaa cttgttttgt tgactatgct tcatgatgta ttttgggcca tacttgatgt 240  
acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct caaaggcaga 300  
aaaaaaaaa aaaaaaaaaa ttcgaaaaaa ataaaaattt cgaaaaaaaaa aaaagaaaag 360  
cattaaagtt gagtgaataa gatcttaaat ggcacaagaa tgacgaaact ctcggttcta 420

ctctacatgt taaactttta tctttacttc ttttatt

457

<210> 14715  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14715

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ggaagcccca aatattggtg gttgattcga tgtgaattag aacttggaat tgtacaaccc 120  
tgaattctga gatccaactt tgtaaacga ctcttcatag gccacagct cataatcgaa 180  
acgaaccggt aaccctactt cttgttcaat cctccaaagc caaactttca cgttggtggt 240  
anaaagtaag tatgccgctt tctacattag aaaccatgag aatctctata tcacaaacct 300  
atgtgt 306

<210> 14716  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 14716

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tgacatttac tattgacatt ttgttaacca ttgacaagt gtaccaaagt tccaagtagt 180  
aaagactcaa aagtctgagt gttgattttc acagggattt tattttgtac ttgtgttga 240  
taattttcaa tttatacgag gacaagataa gatgaggat aaaagatgaa tttaaaagaa 300  
tagtaattaa ataatagata ttaatagaaa acaaaaggaa ataatagaaa attcaatgag 360  
atgagaatgt tagaacctaa catgtcttat ttgcctaaaa tgtattcatt gagatttttc 420  
tctatcaatt agggttaatt tttctaccca catcta 456

<210> 14717  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14717

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atctgcagaa gaacatagac cacagactct tgcaacaggt gtagatttct gattcatggc 120
aagctaagtt actangttga ccaaggcatc aagttctcct tcaagttggt tattttcagt 180
agataaagat gaattcgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240
tgactgaat tgttgggagt tggagccatc ttctcaatca aattcctagc ctcaacaggg 300
gtcatatcac caagagctcc accactggca gcatcaatcg tactcctatc cttgntgcta 360
agtccctcat agaaatatcg aagaaggagt tgctcagaaa tctggtggtg aggacagctt 420
gcacacaatt tcttgaatct ttcccagtac t 451
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<210> 14718  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14718

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cgaagaacgg ttgaaacctt tgcaaaattc ttcacggaaa acgttacgga aacgtttcgg 120
aagcgctcgt acttagattt tcttcacgga aacaattttt ccaagcaaatt tcgaaagaga 180
gagaagtgtc taaggggctg aacccttttc ttcttcactt cctcccttat ttatagcaaa 240
ataggggaga tgcttgccgc ccagctcgcc taggcgagct cagctcgccc aggcgagcca 300
ggttgcttcc tccagaagca acagtcttct ggaggaatct tctggagggc ccaagtgggc 360
ctggttgcta tttgcacccc catttttact aagtacccc nctctgcttt tttatgggtga 420
ttctttnttc gtaatgttac ggaaactta 449
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<210> 14719  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14719

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ccggaattt ctttctatca ttntcctccc ttttatttgt ttaataattg tatttccggt 120  
tattaaaatg acatggtaaa attatatcgt caaccaatga tntgtaccat cgagcaccgg 180  
atgaactgat ataaattggt ctagcttaat caatagtctc aagtttatga gatataangt 240  
tggccccgtg ggtaacaaa actgacaaac taacatttgt ggataaaaaa ataaaataaa 300  
aatatgatct tgagtntact gtattcagta tgcagttgtg ttaaataatc gaaatgagac 360  
atttggtgca tacagtaatt ttagccggct cgaacaagat tgactctaac 410

<210> 14720  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14720

tgtcttcaca aataatcatc atacagcaga aacctatcta gacttttcat catatctccc 60  
caaaccccat acccacgaaa atcaaaggag aaagaagtcc acccaaacct gaattttcga 120  
agtcccactc gtagccacgc acttcacgac ccgaaaaatg ctctcctttc acgatttggt 180  
gcataaatga gcaccaaattg ttgaagcttt gtgtggagct tcaatggtga atgaggaaga 240  
agagaatggc aacgtgaggg agagagaggg ctgtctgaaa ttttctgttt tgctgagtga 300  
ggagagagaa aagctttttg gtcttaaata aaaagggttt tccctttttc cattatatta 360  
tttatgcaaa agccacatgt ctccatttga gtggagcaag aaggggccac tntccctttt 420  
gactgtgacc cacac 435

<210> 14721  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14721

gcaagctttc tatatanntt ctatgtcccg gggggggccac ggcgggtgtt gagtattatt 60  
attctcattc catttacttc ttatacccc tcttgacgtg ctttaagccac ttactttaag 120  
tcatatctcg cttaacttag aaataaaaat aaatctccac cgaacgtttg aattgcatta 180  
tccgttaact tcggttaaaa tgaatgccga ccattcggtc gtgccgtaac cacgttggat 240

atcaaaaaga gaggtaaaaa aaataatata ataatcagaa gacatctttt agtataataa 300  
 agtggaaaat caatcggacg ttttctcttt gggatntctc attcttaatc gaattgagaa 360  
 taactaaagt gaaactaagg ctaatatcaa ctgccttagt ctagctcgtc ca 412

<210> 14722  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 14722

tataaatact aagcttcgct aaatattatt gctttgaaac gctcatgcta cgctactcat 60  
 gcatattagc tatcttatga caggagcagt gatcgtttta gcaatagtca aataccgagc 120  
 caaatccaga gacagagacg aatcgaggta agcggtaatg tggccactat ttgttgcgca 180  
 atgtcgttgc ctgctttcat gtacttacgg atgggcacga gtggaggcta tgcccatgat 240  
 caatggatcg tcgtgccacg tccagcttgt gacaagcgag aagcgctact gggaaagcagg 300  
 ctagtatcct ttaaattcct acttattatt gttgttgttt ctttgaggag atggtcgaat 360  
 gcctaattta ccctaagggg ttogagtaag cgaacaccga cccatataga gcgcgtacct 420  
 ttgtgttaga aaaaatgc 438

<210> 14723  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14723

atattgatga ttaatctcat agtatgataa agtgaccata gttttntagg atatctcaag 60  
 ggctaataca ggtgtcagag gctctactta tggattataa aaatattatt tttctataaa 120  
 aaaaaatatt aaggactact ttttgtctcc actaaagaaa gttactgaat cctccactat 180  
 atttaagcct tttggttatg catatgagat tcttacgttt gagcagcaat gcattttcat 240  
 acttttcatg taaatgaatt caatgtataa ccttaatgac ttgagttaac ctcaaagagt 300  
 ttcataatcg tgttcgaaaa ctcaaaaaat caattgttaa atttagttga act 353

<210> 14724

<211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14724

agctntgaac ttacatctaa aaatattgaa gggaatgta cacaattaaa tcaaatcaat 60  
 cactattgtg aagtgaatca natatataaa gaattaaatc tagacgtata atcaaataatg 120  
 gacggtaaaa tttaattctta acaagtcattg tgagtttttt aaaaagtgtg tgactttnta 180  
 agtaattata tcacataaaa tcttaacctt tcatgtatga ttaaacaatt canatttaatt 240  
 cttttcactt tcatataaga tattntatct cataacatat atcttatata tagaaagaat 300  
 agatacccat caatttatgt catcatgggc tcattggcag ctntntttnt ttttttaagt 360  
 ataatggtta tctaacaata aataaaaaa gaaaacattg aagtctttga aaaatataaa 420

<210> 14725  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 14725

tactcaagct cgataggatc aatgtagcga gcgtagtggt tgctacaact tatgtataca 60  
 caaggcctaa ctgagaaatg acattgtggg ggcaatggaa agaaggaaaa ttgataaaat 120  
 tgttattcta ttatctctta ttcacaacaa aaacacgata ttactctaag gagctactat 180  
 gcatacatca catttcatat ttacatacaa acacacaaaa actcactatt tttatatgtt 240  
 ctgcgatgg caaaaggaaa ttttgctctg gcgaaaacat ttctgacatg attatgtaga 300  
 agcagtcata taaatttcaa agctaact cacaagtatc ctataaacia tcatcaacta 360  
 caaagcttcc taaactagtt tctgctcgc atcctattac tacttggtgt tgtggatgtg 420  
 atatctaacc ggcaagtgc cgggctcgc 450

<210> 14726  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 14726

agcttattat tattgggtta cggcaattac ctgtagtctt tgtgtcacat cttccatct 60

gaatcttggtt gattcatggt gtaatctata tgcattccac tggacatgca tagcacattt 120  
 acatacactg ctgaatgata aactgtttga cctcactatc aaagctgtta atgatcttta 180  
 atgggtttcca ttttttgata gggggcaagt tgaatgggat gcctttgaat ggatgcatgt 240  
 tgagtgtttt cctaatttga tacagctggc ttgcttggtta cctcagaaag aagataattt 300  
 atgaagttaa atttcaaagg tcaactgtct atcttgtgaa gttgttaatt taattatttt 360  
 atgacttctg atcatagttt gtccggagct tttgctggca taagtcatth agaca 415

<210> 14727  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 14727

tgcttctaca ggcattgtctt gatacgtcca agcaaagacg tcttggtagt ccctcagcag 60  
 ggccactaat tcttcatgga tggggcggtc ataccctgtc ctactttttac ttccttcttt 120  
 tcaactgccg tacctaagtt tacgagttct gtctcttctt gatgggcctt atctcttgat 180  
 ccttatgagt aaatatactc tctagctctg ggggaagccc tacgtcttcg tcttcttcat 240  
 cctttgtcca actcgttctt tgctcgaaat cgacggctgg gtcccccaga ttagtacctt 300  
 ggtgggactc gtcgttgaat ctgtaccgtg taagcgtaac aaggacataa acatgcaaatt 360  
 gaatgataat gggtagacgc gcatgaacag atcaagagaa atctttatat tataaattct 420  
 agaacaaaag acataat 437

<210> 14728  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14728

tcattaattt ttttctttac cttctcttcc attgttgntt cttcaatttt ctccatgtat 60  
 ctctcacaat gtcttgactt acatgttatt aacatgattc tgtagaagtt tcaccgatta 120  
 aacttgctat acaagctaga tttgattgtc tatggttcaa atgtctctgt cttgttcttg 180  
 aaccatgaat tgtgataagt ataggttcct ttgagtgttg tcttagtatg ctttgtggct 240

gaaacctata ccataatatt cttacaataa tatcaaagta tactagactc tcgaatatct 300  
agagtgactt gatcacctat tgacgtttgt catataagtc atgtc 345

<210> 14729  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> . 14729

cgaagctgaa tntgggtcgtt gcttacgtac gcttaatcct ccttatacat gtaagaagta 60  
agaaaaaaga actgaagata atactaagaa ttatcaaagt taattagggtc ccatagaaac 120  
tacaatcatt cttaaaagta ctctaagccc caccttttgg ggggaacata ttggcaggta 180  
tggtcaaata gtgcaaggtc gactaagttg tcttatttcg ttattgcagc cattgttgtg 240  
cacatgaatt tcttgcaagc ttaattagggt tcttttgatc ttttaacttg aattactaat 300  
tgtagatat ataacttttc acctgctttg attgctaag ctactatggg caaattgaac 360  
aattagtcag aattaagtaa ccataatggc tgtttttagag tcattacaag tgtgagatca 420  
cactatactt acctacctta cacaatatcg ct 452

<210> 14730  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14730

agcttattct ttcttgtacg tgaatttcaa ccatggacca tatgtatata tatagatgag 60  
agatcccgag ttcaactctt ccattaataa agaattaaca attaacaatt aataactagc 120  
atttgttgat aaatatatgt ctcaatctac cattccacca cctatatgga agcacattgt 180  
gtcattgtgt gtatgtttta aggtgaagct atataaagtt atatgatatt acatcattta 240  
tattataatt gaaaaaattt atactatttt ttaaagaga aataaattct cttaaaaaat 300  
gaaaactaaa tataaattat cgtatgagat ttttcttcta taaatagtggt attggtatta 360  
cttatatttt gaaacanata ttcagaataa caaacaactt ctacaaatca atgtttttca 420  
taccttaagc angcatanat aattgaacac act 453

<210> 14731  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 14731

aactataaaa ctcaagctgg gcccttaatt gaataagtca cgccagaatc cagattgtct 60  
 gttaaatagg ggtccagtc agaaaccata ctccaaggga aactgtggag tttgcatacc 120  
 atatccagaa aagggaac aatcttctgg gcagtgtatt tagggggtaa cacaccaaag 180  
 tgggctcttt ataatagcga tctacaacca ccagaatagc cgtgaaatcg ttggaagggg 240  
 gtaagccgat gatgaagtcc acgctgaggt cttcccatat tgacgacaaa atgggaagag 300  
 gttgcaaaag acccgtgggc ttcttggact cgtatttagt ttgttgaga gtggaacact 360  
 gagcaagata ttggcgaacg accgaatgaa tttgtggcca taagaaattg gcctatagat 420  
 gatgaagtgt catggcgaca cccatgt 447

<210> 14732  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14732

agcttctcat attataccac aagttcatca atgatctgtc gctgtttcat aacataaatc 60  
 cataataata attaataagg ctgataattg aagtgaccga accattcata aagttcataa 120  
 aaaagtacac cctggtttac taagggtgag aataggtcat catttacaaa atcaattatg 180  
 atatgacacg ttggctacaa aatcaacagt aatcagacaa aatgaatgat tatataccgt 240  
 ctgaagtagt ntgttctctg gctgcatgag tccagcctac aatatatctt tgaatcagaa 300  
 tttcatataa tatttgatta acttgggaaa aactctcang aagagaatat gacggaagag 360  
 aatgtaaaac gaatattcta tcatccacat tcatactgat tgaaaaat 408

<210> 14733  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 14733

ctcagcttcc cttcaactct tcaaagctct ctgagcctct tctcttctct tgaacccatc 60  
 cttcttggta agttcagtca atggggttagc tatcttgcca taatgtttga tgaattttct 120  
 gtagtagcca gttaacccta agaacccccct cactcccttc acattcattg gggttggcca 180  
 ttgaatcaca ctttcaatct tgctaggatc cactgctaca ccagcttggg atatgacatg 240  
 gcccaagtat tcaatgggtgt gttgagcaaa atgacacttc tttttgttgg ctactaacc 300  
 atgtactgct aacagttgca aaacagtttg caaatgctcc aaatgggctt cccaatcaac 360  
 actataaact agtatatcat caaagaaaac taatacgcat ttcctaagca aggggttaaa 420  
 gacatcattc atgaggctct gaaatgtcga ggggtgcattc att 463

<210> 14734  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14734

tccaaatgaa acaatagatg atgggtggaca cttgaccata gtttccttta atcttgtgtt 60  
 acagccactc ccttggttgac atgggagaca tgtttgacgt agcaacttgg actttgaaga 120  
 aatcccacac ttggagagac taataacaat caggaataa gtggaggatt gtctcattgt 180  
 cttggttgca tttgcaacaa gtatgattat gagaaagggtg acgctgttac anaaaaagg 240  
 tagtaggcaa acaatntata ttagataacc ataggaagtgt ttaatgtatc t 291

<210> 14735  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14735

gggagagagg aaagcataat catttcttag aatatttana aatatgagac aagaggtaga 60  
 gtttcaacgg atgagacgaa aaccagctta atttacaata cgattttcag tattttataa 120  
 tttgtagcag taccacctat taggggtggg gtgtgggcat atttcatag acagaaaatg 180  
 ggtgacatac gcatgatatg ataagcttac attacgcaag taattttttt ttatatatat 240  
 taattatagt atttcgtaaa atgcgctgtg cttttctttt tataactttt aggggtacgaa 300

aatacctttg tttaagtga cactagctat accaaaaaat tacgatagta aaatgtgtgt 360  
 ttattataaaa agtacgatag taaactttat taagggatat acgagcatag tcttttat 420  
 aataaaacat aaagtttggg tataaatatt ac 452

<210> 14736  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14736

tgacaatata tgtctgaggt aacattccag tatgatcata ttatagcacc attatgaaga 60  
 ctctctatct atagttcatg tgtggctaata cacatccata gatagctatg tgtcataccc 120  
 taatntcgtc cggagactat tggttgatgg catgnaacc ttgggtgacc gcttcgaggt 180  
 actttggcac cctttgttgc ataatacgtg aagtttcgag acatgccgga aatcaaaagg 240  
 aagcattgta cgcaatccgt gaatttcgta acatgccgga gatcaaaaga aagtntngtt 300  
 acgcaatctg tgagtntccg taacattccg a 331

<210> 14737  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <400> 14737

taatgattaa ggggttgtga agcatacaat aattaatgat gggtgagcct tattcttaat 60  
 cagcgaata tagtaacttt gagaaaccac gacacactca ataaattact agccaagagc 120  
 ttattgttca atgcatatat tctatgtcgt gaacagcttc attttctttt atcaaacc 180  
 aatgtacttt gtaaagatcc caaaggaact gatggacat agcttatact ttttgtattt 240  
 ggacagtatg atacaccatt atgaaattgt aactttttat tagcatcacg aattgcaata 300  
 caaaacagca ggggtacata agtcgaattg gtaatttgtg aataaatatc ggcttagatc 360  
 atggccatca cagtgtacgt agtgattaat catgcatcat aattgataca taattgacca 420  
 ttatgtcaca ttctcctttc tcattgaa 448

<210> 14738



<211> 408  
 <212> DNA  
 <213> Glycine max

<400> 14738

agctttatta tgttttagaga gagagagaca ttaccatgct tgtgtcacat tgtagttatg 60  
 cttaatgtta tattactatg tttatgtcat attgtacact taatattata taatttttca 120  
 aataaacatg tgcttaatgt gtgtgtgaca tatatgggcg taatatcaac tgatgcaatc 180  
 ctagcccccaggaggcattgg atagaagact ccaagaagat tgggccagag atgcaggaga 240  
 aggcccaagg gttttcaagg gccttatgat agatatgggg cccttgggct cagtagatct 300  
 tgggcccatt tcatgtcctt tctctccttc tacctccact catgttcttc taccttcaag 360  
 ctcttatcca tggcttacta tgggtggtgag cttgttcttg aatcatct 408

<210> 14739  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 14739

tatcaaactc aagctgtcga catcgttcgc gtgtatgata tccactcgac aaggtttgaa 60  
 gtagatgaga ctttcaatcc tataacgcaa cgtggcggac aaaaatgggt agttaacttg 120  
 aatgaccatt attgtcaatg cggaaggat tctgcgcttc actatccatg ttcacacatt 180  
 attgcagctt gtggttacgt gatcatgaac tactaccaat atatagatat tgtttacacc 240  
 aatgaacaca tcttaaaagc atactccgca cagtgggtggc ctcttgggaa tgaagcggca 300  
 attcctcctt ctgatgtggc atggacacta atccctgacc caactacaat tcgtgcgaaa 360  
 ggtcggccaa aatcaacaag gataatgaat gagatggatt gggtcgaacc atctgaccac 420  
 cgacaaaaat gtagtatatg t 441

<210> 14740  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14740

agctntatac tttgtaccgt aagatacacg tatcattcga ggtgagctat ttggtcaaaa 60

gagcttgtgt ctatacaatt catgaccttc atcatgttct gagttatata aatgattcta 120  
gaattcatag aatcatgcaa agatcattat tcacagttag tcattcactc acagagtaag 180  
gtcaaactct caccggttnt tggttcaagc tcttctttca cacttagtct atctagtgc 240  
taaccattct attataagtt cacactcttg tgctttcttt gtctaacata cacatatgct 300  
caactcatga taagagacac aaactacatc caaatcatgc actcgattca aaata 355

<210> 14741  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14741

ntgagccana atcctgactc accatanacc ttgacccagg gtgttattgt caatccttac 60  
cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120  
tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180  
gcaaaaagaa aagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaaaaggag 240  
aagaagaagg aaagaaagct cctgatcaag gatcgaaaga aaacagaaga aatgtgcaga 300  
gaggtctttg gaccggacaa tatctgaaca atacagaatt gccaccaaatt gaacgaataa 360  
agaaggaaag ggaaccacga cctanaatag tcttctccct ttgattacca accaaaatcc 420  
cgtgcgctag cgaccgcttt tttctcgccc cgactaaac aaaaaaa 467

<210> 14742  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 14742

atggaggaaa agacagaggg agagaaagat agagggggga gcaccacatt gaaggaataa 60  
aagaagtata gaagtggaac tttgaagtat gtctcacaag actctcattc atcaaagtta 120  
caacaagtgt tacacatgct tctatttata gactaggtag cttccttgag aagctttctt 180  
gagaaagctt ctttgagaaa acttccttga gaagctagag cttagctaca cacaccctc 240  
tcataactaa gtcacctcc ttgagaagct tccttaagaa gattcctaga gaagctagag 300

cttagctaca catacctctc taatagctaa gctcacctcc ttgagatgag aagctagagc 360  
 ttagctacac accccctata atagctaagc tcacgcccac gaca 404

<210> 14743  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14743

atcaaccagc ttcacaagcc tgccttaaaa tgtttctctgc ctnttttttt acttgatatcc 60  
 ctagctataa ctctaaggct agtgaaatct atttcaaaga ggcatgtagt gcattaaatg 120  
 cactgtagac tttggatgga cacaacaatt ttccccctcc agccagaggg gaatatcctc 180  
 aatttctcat aggcaatcca tatcgattag ctgcacacaa agttgaagct tttctcgtgc 240  
 tacaacttta ctcatcatat tcgtaggatt tttatcaatg tgaatctttt ccaacttgaa 300  
 gtgttggtct tccacttctc gttgcaacaa atggtatctt acatcaatgt gatttgtag 360  
 agagtggtag atcacattct tactttaaac caaagcactt tgactntcat aatgaatcat 420  
 gtaactntcc tgcttcattc ccaact 446

<210> 14744  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14744

agnctctatc tcttacactc tctaggcggg gaagctctgg cgggcatggc ttattcacta 60  
 gtgggtggtg cctcctctca cctctgcttc ttgatcgctc gatgcatctc cgtgggtgag 120  
 tatcaccggt gcaggacctc attgaagctc aaagatccaa ccttcatat 169

<210> 14745  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14745

agctntgact ttattgtgat gcacttagaa nacacaacag cagacaagta taagaaatta 60

tccttttttt attangttgt tggacttaat ggatacaaat acttgtattt gttttttttt 120  
 tgtgtatttc atatgcaggg ttggatctgc tcattgggct ctaaaaaaac tattacagaa 180  
 tagccttaga gacctatgta gtgtttgga agccatgaac aacatgatca cgttgcaaca 240  
 cactgaaatt aagatatctt ttgagacaag tacacatatg gttggacatg tatntaaagt 300  
 taccttatac aagagactat ttggcatggt atctaggat gctatacatc agattgctat 360  
 taagtttgag tgtgtacatt atgctagcan aaaccattct cgttatggag gtgtcatgat 420  
 aactattcac gtcttcacac tgcattgt 447

<210> 14746  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 14746

tctttccttc ctaagatggt tctctttccc agtccccctc attaagaact agctcctttc 60  
 ttcctctatt gcccttagtt gaatacacct ttgtttgggt ctctatttgg gtcttaaccc 120  
 tctcatgcaa cttctttaca aactctgacc tagattcccc ttctttatgt ataaaagaag 180  
 tgtcaagcgg gaggggaatg aggtctaagg gtgttaaggg attgaacca tagacaacct 240  
 caaaagggga tcgcttggtg gttctatgaa cccccctatt gtatgcaaat tctacatgag 300  
 caagatactc atcccaagac ttatgggtgc cttttagaag agcccttaga agagtggata 360  
 aagacctatt cactacctct gtttgcccat cagtttgggg atgacaagtg gtggagaaaa 420  
 gaagctta 428

<210> 14747  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 14747

cactaccgca gctccggcca agctgtgctg aatgaagtgt atcaacagct gttcatctct 60  
 agaatgggcg cccatcttac ggcagtacat tatgagatgg tttttgggac aagtcgtccc 120  
 tttatacttg tcgaaatccg gcactatgaa cttcggggga ataactacat cgggtactaa 180  
 tcaaagat 188

<210> 14748  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 14748

gtgagggtgc gtagcccacc atcttttcat agtagagtat tgattatgtg tctaccatca 60  
 cgattatcgg ctccctttcc atcattggga gtaccacttg ggccgccaga tccctccacc 120  
 ttttgggcgt gttctttgaa agatccgtcc ccctttttgc aaatgttctg tagttgcatc 180  
 ctatccagaa ccatatcaaa attgtactaa tactgcctaa caaaggcaac cattatgtcc 240  
 ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta 300  
 agactttcat ggaaggaatg tatcaacaat tcctcatctt ttgcgtattc ccccatcttc 360  
 tgacaataca tcttttagatg gttctttgtga caagtagtcc ccttgtactt gtcaaagtcc 420  
 agcaccttga actt 434

<210> 14749  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14749

agcttttatgt atatggagta cccatcacat gtggtactag gtggcggtcg ggcgatgggtg 60  
 cacaacaaat tattccacat tcacaatgcg cacataaacc caccatccac tgatgcccac 120  
 ctccatctga gtcacgtac tcccacgtaa cccatatact catttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc tagcacaaca tccaagcaaa acaacattca aatagcacia 240  
 gctatcacag ccaagcaaaa catagcagag gcagattact gtgcacaaaac accaaccata 300  
 agcacagctt ctctcactta aagaccccag gaacaattcc ttcgttccaa ttacataacc 360  
 ggtggatcga ctcaaaaant ttactagaag tctctagtac tt 402

<210> 14750  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14750

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gtgagccana atcctaactc accataaacc ttgacccatt gtgtgaatgt caatccttac 60
cctcgggaagc aaagaagaag agaaggaaaa tttccaatca aagaaaaaat aagaaggaaa 120
attcccaatc aaagagtggg agaaagcaaa aagaaaagaa agaaaattcc caatcaaaga 180
atggggagaaa aaaaaaaagg agaagaagaa gaaggaaaga aagctcctga tcaaggatcg 240
aaagaaaaca gaagaaatgt gcagagaggt ctttggacca tacaatatct gaacaatacg 300
gaattgtcac caaatgaaca aaagaaagaa aaggaaacca taacctaaaa gtggtcttct 360
ccctttgatt accaaccaaa atcctgtgcg tcggtgactt gctcacctcg tgtcaaacaa 420
aaacagaaaa ggagatatcc aaaacacac 449
```

<210> 14751  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 14751

```
tactcagctt cttgggttgc tggctttata gaaagttcat tgattttttc tttttgcatt 60
gccctaact aagggaactc aagaatgaga atttttctgg aatgagaatg tgatcaaagt 120
tcaagagttg aagagcgggt gacgacagct ccatgttaat ttggccgacc ctaaagacat 180
ttgaagtgta ttgcatgcag cgggcaagct ggggtgtgtg atgcaagagg aaatagtggc 240
tatcttccgt catacgtctc tgaattacta tcactatgac tgactacacg gtggtttgct 300
taagattgag gctttttgcg gtctcgttta gtttcagtgt cacaatctaa atacttgtca 360
tcaaagactc at 372
```

<210> 14752  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14752

```
agctntgtat gttctanata gcttatcact gcattttttg agaagaacaa tattgcaact 60
gcttggttgt tttgtttcaa taatatgcat aatgttgggt acattgaata tggaatataa 120
```

gtttgtcatg tacaagggtta tgtgcaggct aaaaattaag tggctttcat cgtgccacaa 180  
gaatactatg ttagatttgt attagaattg tataactaatg ttagttagat attattcttc 240  
ttatatgatt atttatgcat caacatttat tgatatcgac tnttttactc tatatggagt 300  
ttagaattga tgaatgaata ttacaggaat tgctacgaaa tagcatagat aatgatgcag 360  
attactagaa cacctaagga gatgttcac accattatac caaggatcaa ngttaacaat 420  
tattgtgata ttattgtcat tntgattctg atataacata t 461

<210> 14753  
<211> 329  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14753

tgtatccagt gtccttgana actgagaatg ccacagtcct tcctttaata tctaatagagg 60  
aacatcaaca ggtcggaggg gtctctccaa ttcttgactg ttatgtatag ccgaaaactt 120  
ccttgaacat gttgtctcga aatccttggtg ctatgtgccg tgtcctgaat ctatgtgcta 180  
tgctattttc ctttaatttgt tcatgccacc tatcatctat gggcatgtcg atacatatga 240  
ctagcttctc tttattatga tgataaatga gaaacccttc aaagccccct aatttctctc 300  
agacattctg acccccatga tatggaccc 329

<210> 14754  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14754

agcttcatct tcttcctcgg gagtgaatgt tncttcaact tctcatggt cccctccacc 60  
ctgtccctat tgcttcctca acttcctgaa atgtagataa tagtgtcaat gggttcctcan 120  
tttttctctg taatgtccaa gtctatttgc attggcattt tttgtgaagt gtgatttcat 180  
tnttcgggtga gggttactct atttatttgg tgcagctact taaagaattg gagagttaca 240  
cttcaatttt taagaataat caatttctat attttgggtg aaaattatga tttgtaaaag 300  
tcttatcaat ctgtttaatt ctaatttaag aggaaaatct tatttttgagt aattntggta 360

atgttgacat ntttaaaaat agaataattta ttcttga

397

<210> 14755  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14755

gatgattctc tacattaatg tataatgttt tatattatcg agactcatca tgcaaaagtg 60  
taaatacgta aatttttaat ttcaattatg acatcattaa ggtaaatata taatacttta 120  
actgatatta ttaaaacatt cattcaataa ttaacatgta atcaattaat atttatccaa 180  
tatatccaat gtcggtgcta atagtaatac ttaacatatt atttcgagcg aattttgtat 240  
aattatcatc atcgttattg aatcagatca tctaacatac aatgattcaa catcttaaaa 300  
ataaagagat tcattgcatt cattactaca ttcgattcat tatatgagca cattcactat 360  
ccttgatcgn cactatgagt acaaaattat cagcgtatac attttcatta ttttgaat 418

<210> 14756  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14756

tgatgagggt gttccatattg ttctcaagac tggactaata gattttctgc ccaagttcat 60  
ggctttgcan gtgaagatcc tcataagcat ctttaaggag tccatattat nntgtccacc 120  
atgaagcctt ctgatgtcca agaagatcat atctntctaa aggcttttcc tcattctttg 180  
gagggagtgg caaaagattg gctatactac cttgctccca ggtccattnt cagttgggat 240  
gaccttaaga ggggtgttctt ggagaaatta atccctacat ctangtccac tgccatcaga 300  
aaagacattt caggcatcan gaaacttagt ggagagagct ngatagagta ctgngaaaga 360  
ttcaagaaaa tgtgtgcaag ttgtccccac caccagattt ctgagcaact ccttcttcaa 420  
ta 422

<210> 14757  
<211> 282  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14757

ntataagtgc ggggtctggga gacgaaggctc atgtgttccg atattgaaat gagtccagac 60  
ttggattggg acgacatgcc ttctgatttg cgctgggaat tggccatggc aggaacgccc 120  
cgacatttac gcaacaatct tattgtaaac ctatccggtt atgaaagctc tatagcgggc 180  
cctaggcttt aaagatacct tttgataacg gcaccgcgac ttttggatgc gaatggataa 240  
tacacggatc ttaattcatc ggaacctggg cattgcccac tc 282

<210> 14758

<211> 213

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14758

tcatatactc aatgggattg gcaactnngc tggatttttt tcttcttctc tgatgtatgt 60  
tctttatctg ttctcgaata tatcttatcc tccttgtaga tatactntac ttccctcttc 120  
tataataaat cttactaact aaaaaactat atatataat atatatcaga ctgcctgaac 180  
ctgangtato acttctttta ctggctcgct aca 213

<210> 14759

<211> 453

<212> DNA

<213> Glycine max

<400> 14759

tcagaaaact atagaagata atgccacggc ggtcgctcc aattctctag ggaagcggaa 60  
ccggtgctac agcccgaat aaacttgggc cgagacagaa acacgacggg gttagggtcgg 120  
aggtatagtc ctcaagccta cccttatggg ttgcctccgg acttcaactc ccatactact 180  
ccggacgatt tgagccaagc ccctaccttc gaggggcaac tccctcctta tgtcgactat 240  
cccctgcaag aagatgaaga aggagatgcc tatctaggcc ccctacttcc cctcaaagat 300  
ccggccccc ataaattgcc ccaaccaaac atagtctgcc atgtcccgtc tccactcgca 360  
cccgttaaag aatctgttcc ctttgcaaaa gataaaagaa aggttgattt acttgaagag 420

aggctgagag cggtagaagg cctcggcaac tac

453

<210> 14760  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 14760

tctgcatctg tacctgttac tgttgcaaga gtctgtggtc tatgttcttc tgctaatacac 60  
catatagatc tttgtccttc tttgcagcaa tctggagtca atgagcaacc tgaagcctat 120  
gctacaaaca tttataatag atcccctcag cagcaaaatc aacaacagta gaataattat 180  
gatctttcaa gcaacagata caatccaggt tggaggaatc atccaaatct aagatgggaa 240  
aatcctccac aacaacaaca gcctgtccct cctttccaga atgttggttg tccaagcaag 300  
ccatatgttc cttctccaat ggcagcagca caacaaagac aacaagcaac tgaggcccat 360  
tctcaac 367

<210> 14761  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 14761

tgagatgagg aagtgttgaa ggggtgaaact tcctgctttt attgttgacc acagagtggg 60  
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240  
aagcaaggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300  
cctctggtaa tcgattacta aggggtgggta atcgattaca aggcttaaaa ttgaagacag 360  
gaggctaaga tgggtctctgg taatcgatta ccaaggggtg taatcgatta ccaggcttga 420  
aaacgaagtc aggaaactta aggagtctct ggtaatc 457

<210> 14762  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14762

```

tgcaagcttt tctattgtac atggatncaa ataacatgta cctagctaca agcataacaa   60
agaaacctct gtatgtcaca cataactaga atccattaat aaaatgtatt attttataga  120
gtgagccaag tgaatgggaa gtcattgtcta acctggtttt ctactttcca taagctccaa  180
cattgaggag actntgaact tgatgatctc gaaagaggca cttcatgaat gtttgcttgg  240
ctaacaagat ccaccccttg acagcaaaac agatccacac gtggagcttc atctgttctg  300
gagacaacac atnctataga aacataacca ggaggagcta taggatacca gaagaaaact  360
tcatcaaacc ctttccctac aatatgggaa acattgtaaa ttgacagggt tgaaagatat  420
acgactgcat tcttgagata ttctag                                         446

```

<210> 14763  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14763

```

tagactcacc cccggcttct ttttggtgtg atgattccaa cttgaagagc ttggtcacct   60
cctttttcac cacatctaga atgatggggg caagtcgtcg ttgtggctgc ctactgact  120
gagctccatc ctctaaaagt atcctatgca tgcaggtaga tgggctaata ctatgaatgt  180
ttgctaaagt ccatccaata gctttattgt gcttctggag cactaacaac aactactcct  240
cttgctcggc agtaaggagg gcagagatga aactgggata tttttccttg cctccaagt  300
aagcatactt gaggtttgct gagtaggggt tcaactctga tgcgggtggt ggatgaatag  360
cgggaggaac cagtgtgaga gaacaagatg anggttcctc agcctgtacc tcataaagca  420
tgtcataagt at                                                         432

```

<210> 14764  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<400> 14764

```

ttcccaatca aagagtggga gaaagcaaaa agaacagaga gaatattccc aaccaaagaa   60

```

tggaatagt caaaaagaga agaatacagc tcccgggtcaa agaaactaca agaatgtgc 120  
ataaaggtct ttgaccaga caatatctga acaatacaga attgtcaccaaatg 174

<210> 14765  
<211> 459  
<212> DNA  
<213> Glycine max  
  
<400> 14765

ctctagtga cttctcgtca tctctcttca tcatgaccgt aattatcttt ttgtgcatct 60  
cttcttgctg agccattatc ttgtgcacaa tgctctcaca aaaacacttg aacatctcaa 120  
acctatcagg cctcttctc ttgcgggtcct ttgtgatctt ttccactgct agtgccctcg 180  
cgctttgctc gtattgtttt gtcaccaatg cgtcaacaac gtttctagaa tccccctcta 240  
cttccaactc caatgcatgg tggcccatct tgtcttgttt ctgcagtggg ggctgagtcg 300  
tattttcaag atgatgatca ccactacccc cttgggtgata aagctgttca agctcactaa 360  
cacaccgata atcgctacta ttactattat tattattatt cttgccgtaa ttaatgttgt 420  
tgaaatatct actctcttct tcaaacttct ccttgcact 459

<210> 14766  
<211> 463  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14766

aagtgaatt aggtgcagcc atttccctta gaggcctctc atgatgtgga ggttgngcca 60  
tgttctcaga atgttcaaaa tcangatggt caaaatcaca agtaacagaa tgcacagact 120  
caccagtaac agaatgtcga ggatgcacaa aaggtataaa atgatgccta attaacttat 180  
gaaatgtcct atctatctca ggatcaaagg gttataagtc agatggattg cctctagtca 240  
tactactacat tcagcatgca caactagttg ccttcttatg caagtaacag tgtagggttg 300  
aactacagct accattaaat gatatccaaa tgacttgaaa ttttgtaagc aaccttataa 360  
aatcatgaaa aggtagcaca aaaantttta tgcaaaaatt caaagtctaa ctatggaaac 420  
tacctaanga aagtttagaa aaataaaaaca ataaaacttg aaa 463

<210> 14767  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14767

caagctatgt tgtatattnt acaatagacc tcctcaacct aagcagcata atcaaccaca 60  
 gcagagctat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccctaa 120  
 cctcagatgg tccagccctc agcaacaaca acaacagcct gctccttact tccgaaatgc 180  
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
 acaaacaaca gttgaggccc ctccacaacc ttctctcgaa gaacttgtga ggcaaagtac 300  
 tatgcagaac atgcagtttc agcaagagac cagagcctnc attcatagcg taaccaatca 360  
 gatgggacaa ttagctaccc aattgaatca acaacagtcc cagaattct 409

<210> 14768  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 14768

gttatgatta tttgaatttc tcgagagctt cctatgttta attttgagcg tctcgatata 60  
 ttatacgctt gaatcgaacc tcagtgtaaa aagttatgac catttgaatt tcttttagagc 120  
 atccgttggt cattttcgag cgtctctata tgtgatgaac cttaatcgga cctccgtgtg 180  
 aaaagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttcg agcgtctcga 240  
 catattatgc gcccgaaatcg gacatccgtg ggaaaagcta tgaccatttg aatttctcga 300  
 gagcttccgt tgttcaattt cgagcgtctg gacatattat gcgcccgaat cggaca 356

<210> 14769  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14769

tcttcgagct tagtgccagc ctgctgcgct tagcgctga gtaaaatttc ataatgcgcg 60  
 ctaagctcag catgttgcgc taagcgccca gtctaaattt cagtcttatt tttctgtttg 120

tgaaaataac ctgtgttaat ctcttgtgtt tagtttacat tttgcagatg gcatccaaga 180  
 aaagaaaatc tccttctaca cctacccaag ccagatttga taggtccaga ttcacatccc 240  
 tagaggcttg tgagagatac actgacattg tgggtgcctcg aaagctacta ccacatagga 300  
 atgtggtagt ttattacaca gagtntgacg agatc 335

<210> 14770  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 14770

ctgcttgtga ggcttctatg gaggtggat cttgagcttt attgggtcct ttaatgggtga 60  
 ttttccacca tggagatgca gcagaagaca aaggaaaata ggtgagagga ggcgccatcc 120  
 attaaggaat aagccatgga agaaggagct tcaccaccaa gatgagcctt ggataagaag 180  
 cttggagagg atgcttcaat ggaggaaaag aaagaggag agaaagagag agggggagca 240  
 cgaaattgaa ggaataaaag aggtatagaa gtggaacttt gaagtatgtc ttacaagact 300  
 ctcatcctac aaagttacaa caagtgttac acatgcttct atttatagac taggcagctt 360  
 gcttgagaag ctttcttgag ataacttctt tgagaagctt ctttgataaa acttccttga 420  
 gaagctagag cttaactaca cacaccctg 450

<210> 14771  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14771

aaaataacat gttagaggaa gtatcccaca atttaagcaa gaataacttc attntgggtc 60  
 acaaccttac tggatatctag gcattagtag gtaacacata cgtnntctac tatgacatag 120  
 tgcatagatc ctaccaataa ttctcaagta ctaattaatt aaataattga aagttgaaac 180  
 tacactatcg atatacattg attagcttcc acaacttgct aaacactaga aactgaaac 240  
 attcttcatt ttacaaaaaa aatactaata agaaataaaa agacggtgtg gtgttggaag 300  
 aaccaaagg tagcaaacta gactactact cattgcttaa agtatgaaca atcttaacct 360

gaggaagaca atctagtgc caacactggc

390

<210> 14772  
<211> 459  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14772

tcattcaatt gaataaagag agctgttntg ctacatctat tagtatcaat ttagagttgt 60  
tgcgcttggt taattgggtg tgcctctctc tttcatttag ttattgtttt ttaatcacct 120  
cattcatcat tgaccggtac agaaagtcct tgtgcagatt gttttttccc atgaaagcat 180  
tttttttagtt catattatta taacatgttg ttgactttga attgaagtaa gtaattggaa 240  
aagtgattac tcccaacggg tgtaatatct tttacgttaa actatctact tggatatgtaa 300  
tgttctctat ttttaagtttt ttgtctatat cattgtcacc aaatatctat caatgttatt 360  
tattattaat ttttgttaga aaacttaatc agtcaccttt aatggaatta tttcttttca 420  
ttcacatttt tgttttattca caaaattcat acttattta 459

<210> 14773  
<211> 347  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14773

gagagtgagt tgtgcccaca aagaaagtaa cttaagaaaa ccaaaatatt agagtccgta 60  
gaaaacanaa acaagaatca tcagcatcaa agtgatattt tgagaaatga agagataatg 120  
agatatgant atatatacat gtgacttgac tttcaggtga tccaacaact atttggttgg 180  
ccaggatcca naattcttga atatggccca ataaaagtga gaagctgtga agatggaaga 240  
gaaatagtta taactataat agcctatgct attaaaagtg tgcttgccat agagaaattc 300  
tctaacttat aacattggta gaacattcat canacaaaaa gaacatg 347

<210> 14774  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 14774

tgagatgagg aagtgtacaa aggtgaaact acctgctctt attcgttgac cacagagtgg 60  
tacctggaga tatgtcgcgg gggtcacta cgactgactg ttacgatcac tctttgtgtt 120  
tttatatggg tagacctgat gtataggaat atgatgattg tatatatctg gctgaagccg 180  
ccactgtgga cacctttgct atgatatgac gctttttatt taatacagct cccctctttt 240  
cgtcacctgc atacgacgtg cgcagctatg agccttctta tgctagtaac agagtacggg 300  
tgcatctatt atttgttt 318

<210> 14775

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14775

agctntgttg gtcgtatccc accatctttt catagtagag tatcgataat gtgtctacca 60  
tcacgattat cgtctccctt tccatcattg nggggtaccac ctgngccgcc agatccctcc 120  
accttttggg cgtgttcttt gaaagatccg tccccctttg tgcacatgtt ctgtagttgc 180  
atcctatccg aaaccatata aaaattgtac tgatactgcc taacaaaggc aaccattagg 240  
tccttccaag aatggactcg ggaagggtcc aagttagtgt accaggtaac aactacccca 300  
gtaagactnt cttggaagga atgtatcagc aattcctcat cttttgcgta ttcccccatc 360  
ttctgacaat acatcttttag atgggtcttg ggacaagtag tccccttgta cttgtcanag 420  
tccagcacct tgaacangng aggggtgatg atatt 455

<210> 14776

<211> 376

<212> DNA

<213> Glycine max

<400> 14776

gcgatataat tcgttgtaac ccgtcactaa ccaattaata ttatcaacta ctccttttgg 60  
taagcaagga aagtgttggg ccaacaaaaa tcatttacgc gtacagcata catcattgtc 120  
ataattgaca acacataatg acatgcatgc gtgttacaga ttgagcgtga caacacatgg 180  
gttgactata gtacacattt tgaaactatc agtcgctcaa caacacattg ggtgacttga 240



ctacacatta gcgacaacac ataggctgac ttgactacac atttacgcgt gtctatgttt 300  
 tcgaaacata gttaaacaaa ggctcgcgct caaccatgta tatatatggc agactaggct 360  
 actaaatcac acatta 376

<210> 14777  
 <211> 185  
 <212> DNA  
 <213> Glycine max

<400> 14777

ctttattgta tcaagtctta tcttatccag atattattct atctagattt tatggtatcc 60  
 gagatttatt tcatcacatc ttatcgatc ttatcttaat tttattgtat ttcgtttatg 120  
 ggtgtggact taaaatagat ttgtaagttg tggggccgag gacctatata acagcaccaa 180  
 agttt 185

<210> 14778  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 14778

tattaccac aaccaccac caaacctatc tattttttaga ttatgacatc ggcagaaatg 60  
 cagttgagaa gagaaagggg cctatgcttt acttgtgatg acaagttttc ccctagccat 120  
 cgttgccta ataagcaata ttttgttcca cagtggaag aagaagatga acctgcatta 180  
 caaccagatc caccacacga ggttgagaca gctggtgacc ccagtttgca agatcatcat 240  
 ttgtcttata atgctttaaa aggctcatca tgtcttggga caatgaagtt tcacggatca 300  
 ataaatggat tgagagtgtg gattctacta gatagtggga gttcagataa c 351

<210> 14779  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14779

ctcttctaag gacaatagca tcatttctgc actgaattgt tggagtngga agccatcttc 60

tcaatcanat tcttagcctc agcaggggtc atatcaccaa gagctccacc attggcagca 120  
tcaatcatac tctctccat gttgctaagt ccctcataga aatattgaag aaggagttgc 180  
tcaaaaatct ggtggtgagg gcagctngca cacaatttct tgaatctttc ccaataactca 240  
tataagctct ctccactaag ttgcctgatg cctgaaatgt attntctgat ggaaatggtc 300  
ctagatgcan ggaagaatct ctcaagaaca ccctcttaag gtcacccctg ctgaanatgg 360  
acctgngagc aaggtagtag agccaatctt ttgccactcc ctcta 405

<210> 14780  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14780

tcggaagata gtgatgaggt acaagccctn atgcttactt tattagcctg ngtagtcgaa 60  
gagaagttca ggtccatagc catcaaagtc tgaaaagagt atgatgaact aagggatgtc 120  
aatatggcca ccgatgaagc cttggaatga gaaaccaaca acgcccgcaca ggaagaacac 180  
gaccaaagaa aagtcttgag gggctctata gggcagcaat agtgagctca agctccgaag 240  
aggtgaaagg aatcatcacg ggtcaaaggc atgatcttga acgacgagct aaaggtttgc 300  
cttatgtcga aaagaaatct gtcccaacag ttaagcgaga ctgaagggaa tatgtggggc 360  
atcatcgata agtgcaaaga g 381

<210> 14781  
<211> 432  
<212> DNA  
<213> Glycine max  
<400> 14781

actcagctca gcatttctgt aggttcaggc ttccatctct ctgatatact tgccatatac 60  
tcagccggta ttaggectca tgagctttct catatccagc ttactggatt tagtttgggt 120  
gacttccctt ttagatactt aggtgttccc cttttatcat cgagattaaa tgtatgtcat 180  
tatgtccctt tgctttccaa gattactggc ctgatttagg gatggagcaa gaagtcttta 240  
tcttatgcag gtaagttaga gttgattaga gcagttattc aaggaattgt gaatttctgg 300  
atggagatct ttcccttgcc gcaatctgtt ctggaccgaa tcaacgcttc gtgccgtaat 360

tttctgtggg gcaaagcgaa tattgcaaaa acaagccctt ggttgcttgg tcagtagttt 420  
gttctccgaa aa 432

<210> 14782  
<211> 465  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14782

ctcctctnta tttcgttcat tntcgatttc ttttcttccg tctttatcgc gcttttaccg 60  
tttatttaag ccgttttctc acctaataaa tgataaaatg aatttcaacc gatcatttgt 120  
gttgtaatct catttaatca ctcttaaaat gaaatctaac cgatcgttca cgctataacc 180  
tcggttaaac aaaaaaagta aaataataat aaaataatca aaatatcttg aaaaaataa 240  
ataaaataaa caaaatatct ttgaataaaa taaaacaaaa aaatcaatcg gacgtttttt 300  
ctttggaagt ttccttgaat gaattgatta ataaccaaag tgaaactaag actaaaatag 360  
actacaaaat caagttntgt ccgaaaaatca ctaaaaaccg ttttaaggtc caacgcctta 420  
tacggctctc tntgctttta tcggttaaca tggaccgttc aaaag 465

<210> 14783  
<211> 389  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14783

agctttttga ttataatcca catcagcaca tgaacggcgt agtcgtatcg agatccagcg 60  
ccaataatat aactccgtga atgaaggata tataccataa ctgtcctgtt tattatctat 120  
cggatgagcg aattctagtg aggtctatat cttgaaatca agttatattc attggaccaa 180  
ctaaagagcg agagacatgg aagaccctcg tatgaataaa gacaagtcac tctaccaatg 240  
tgcattgnga aactgcaatg atctgtactt gcataaagac aantagcttg ccataaacat 300  
ctgatatggg tagccttata atggacgtat tggccgctac catattgata gtgacatcat 360  
ccaccgttct aacctanatg caaccacac 389

<210> 14784  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14784

ggcgagcaga agaagaagga gaaggagaag agaagttgtn gagggtgntc ctattctgag 60  
 gcacacgatg actggtaatg gtagtcatga tgggttcctcc tccattgat gggggtactg 120  
 catagagagt ttctagttat tactcttcca taacataatc ttctattagg tggatgatga 180  
 gataagatgt tggcatttgc ttcttgacc cactttttaga tgttgaatt tgcttcttac 240  
 acccctatt ttgcttcatg cagcccccta aagacatgaa cagatccaaa taccctgcc 300  
 tctccaagc aagtggggcc caccctaac ctccgccaac ccaaacacca ctgccgtaac 360  
 tgtcaacacc accaccgaca accatgattt anaaacaac acaaatcaag ttgttcaagt 420  
 canatataaa aaaggagggt aaaactatac cttactctgg 460

<210> 14785  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 14785

tgggagagaa atgttcatct aaagcataca agtcctaat attatcaaatt cctaaaattt 60  
 gagctcctag ggagcaaac aatgtgtgtc tcctagagag ggcatcagct accacatttg 120  
 tatatccctt tttgtatttg ataacatag gaaattgtc tacgtactct accattttg 180  
 catgctctt gttaaacttg ctttgcctc taatgtactt aagtattga tgatcactat 240  
 gaatgacaaa ttccttggtg acaaagtaat gttcacaagt gtggagggct cttattaacg 300  
 cataaagctc tttatcatat gt 322

<210> 14786  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 14786

tcattgtgctt acgatagagt acaacatgaa agtatgtatt acagtcaagc tgtgaactca 60

actcatttct agacatgttt tgttttttct gattttctcat gtagtgtcaa ctatccctac 120  
tctaatttaa tatattatgt gttaatactt aaacttctat actttttag attgaatcaa 180  
tggcttcaaa tatactacag ggagattgga gaaaaaagtg ggaaacatga gatcaaattt 240  
agggagaagg gaactgaatt ctttttaact aaactgaata taggttgaca aaaagggact 300  
tt 302

<210> 14787  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14787

ctcaagatgt cgtctatctt tatgatgaaa taagaacctt anaaactaca ttatccaaat 60  
ttgtcaatgg aataaataat cttacaaat tattggaata ctgtagaagt tccatagaca 120  
aatctaaaaa tgtatatgat ggaaggtat atgttcatga tgaggacacc attttttgtt 180  
atttttgtgg aaacctgga cacatgacat ccaaatacaa ggattatgct aagaagggtt 240  
cagccaatcc ctttatggct aacacaaaag gacccaaaaa tatttgggta actaagaaaa 300  
atattattgc agttgcagat gtccttgata gtaggaaata gatgcctatc atggtaccta 360  
gacagtggta actcatgaca catgtcanga gaaaagtgta tgttccaatg cctgactccc 420  
tatcatgggtg gaacaatc 438

<210> 14788  
<211> 181  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14788

tatgtatctc ttcatagagt atggccaacg acattgttct gatgagtcac gtangtgatt 60  
gtgcaacgac atcccttctg atatcaggtt ttaatcctcc caciaagcaa tccaatagag 120  
cttcttgtgt aattacttgt actcgcataa ctanagccgt gaactgcacg taatatgact 180  
g 181

<210> 14789

<211> 205  
 <212> DNA  
 <213> Glycine max

<400> 14789

tttggattaa ataacaaggg ttctcccttt ttccattatt ctattcaagc tctgccacat 60  
 gtccctatct gagaggagcc aaaagggccc actttccctt tctactgtga cccaccctca 120  
 gccacaaaag tgagaaatca tcttacctct gatacgctaa aatcctgcct ccattggcat 180  
 gtcacttctc tgattccagc atctc 205

<210> 14790  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14790

ctctgcggtgc tatcagggct ttcattctac agacagcaaa agaaagtnta tacggataac 60  
 cactcgggta tttccacccg tcaacgtgac tcanatgtca gtatgacaga tcttgtgaag 120  
 gtggccgaca aaagcgaggc tcttgctcct acgtatcctc caatgaggaa ctcagaccta 180  
 cgtagttctt gataacttgt gagacttgac aaagtctcca ccggaagatg ctgacatctc 240  
 cggaaagggc gcagatgacc acattggcct ctgctcgtca atcacacttg nggtcactga 300  
 atgacgaggt gcggataacc gtaaggtgtc tccgcgaact accagctctt gngtcatggt 360  
 aacaaanagc ggtgcggtcg acaaaagcga acctcttgct cctacttatt cc 412

<210> 14791  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 14791

gctttttctt tattttcaaa tgaacaaatg aagtgtcgac agtcattgga tggttgctcg 60  
 gtacacgtac atgtaattaa ctaataagat ttctacatg ttatgtataa ttattaagaa 120  
 caggcactat gtatatagac ttttatatat aaatcttatt agagttttta cacaatctcc 180  
 actgggtggtt gaaacttatt gagaattata agatcagaac aatgactcat caaatgacta 240  
 ttgtgacctg ccaaatatgt gatttttaat 270

<210> 14792  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 14792

ctcaagctta tattaattaa atataaagca aaatcatagc gggaattgtg ttttatattc 60  
 caaagtctga aaatggagat ctttctatat ggagagggga aattccgtct cagagtttgg 120  
 agcaaaacttt ctaagtaata atttcacgga ttcatatgaa agtactaata atttcacgga 180  
 gtaagacgta agattggcaa tcccaaaaag ccgtataatt gactactaat tactcatcat 240  
 agagctcttg aattaagtct gcagaattta ttatgttgac tagttaaggt gatgaaattt 300  
 cgaactaact atagtgatag tactatcttg cttctgcata attcacaaaag accagcataa 360  
 ccaactcttt gacgggtgac ttgagttcta aagttttata tagaaaaaat ggagattgaa 420  
 tcttgtggc 429

<210> 14793  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14793

gtgaacctca ggggttccta ttttcgtctt acatagatan tttntttaac aatcacaagc 60  
 gtgtgcgggt tcatccagat ccgactcaaa gcaaataagca tcttgatcaa tggcttattg 120  
 gcttgaacgt ggtaggggg tagagaccta tgaaagaaan ggatagaaag gctcanaggg 180  
 tgtttgaggg ttacattgag taagaaacct tagagcgttg cttgtatctt ttgggttagg 240  
 ctctactcct tntgtattat tcagtaatcc ttntcgcact tttgtgcatt tcttgtanaa 300  
 tctggagatg gttgtctntc ttttttttct tcaactacct ttgggcggat ntatnnttct 360  
 tnttcttttc attggtgccc aacttcatgc atgcgttatt tgcattgccn 410

<210> 14794  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 14794

ctcagcttgt aatgctcgag gcacatgttg tagtaataat cagaagttga tatttgtcaa 60  
tgtgaatgct ccttgtgagc tggttgggaa gaaagcttta tgggatgagt tgaggcagct 120  
gaaggcttct aatcctagtg gaatgtggtg tttccttggg gacttcaata gcattagaag 180  
tgctcacgat agaatcaact tatctcagag aatggcagat ccttatgaca ttgcagcctt 240  
taatcacagg attgatgata tggagcgtcc agacattacc tgttatggga atagctctac 300  
tcggattacg cctagtggct gtgtgaaaag catgcttgat agcttcttgg tctcacataa 360  
ttggatatct ctctggcctg agagctgtca cactgtgcat caaagtaacc tctctgatca 420

<210> 14795

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14795

agctntatat ttctatgata tcgcatgct gcgcttagcg ccaccctcac gcttagcgcg 60  
agtaagtga attgggctta gcgccagtct caagcttagc ctggctaaag gcacctgctg 120  
cacttagcac actgatctcg cgcttagcgc gcgactttga tgctgatgct ctactagatt 180  
ctccttttgcg ttgagcatgc tgaagctacg ctttagcggcg gatatgtgct tggctcaact 240  
gctgagctta gcccaattgc taaattttgc aattcataac ttagcgtctt tatcacctga 300  
aaaatgcata gacntcatca ttaaatacaa tggaaatggt ctagagacaa cattaaccat 360  
aatacatgat gtatntacaa aaatcactac aaaataacca taaatttggg aactatacaa 420  
gcttttagaaa atga 434

<210> 14796

<211> 224

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14796

cttctcctta gattcaatgc ctctgctgct tgagcttatt cccacataga gccatgtggt 60  
gaatattgan aatacaaacc aaacccatat actcttaaaa tcatagtgtg tttacttggc 120



aataggcagt aattaattct ggtctcaaga tacaaaatcg agaaccaagt gcagtatagt 180  
 tggcatcacg aggagttact ctgtgaccag ttgtcacgat ggtg 224

<210> 14797  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 14797

taaggaagca gctccattga tatcatctaa tatatgctat gcttaagccc gaataagaaa 60  
 acttgtatca caggaaaaga tctaatacaa gttgaattaa ggatcatact gattgtggtg 120  
 gtaaaactgg cttgaagtag ccatctgggt catatcctga ccaggaagtt tgcttttgta 180  
 ttaaaacagt gtcgtgctca aactgcta atgtataaaatg agattacaaa tatctaagct 240  
 ttcctcatga gatcaactaa cagtatccta ttcataatat cacataaata catttatag 300  
 attaccatg 310

<210> 14798  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14798

tttatctgca aacatggatg gtttgcacgc tcaaactcag tgcaatcatg agatccgatg 60  
 caccaaactct ggcaataact cagccccaaa tccaatgatt acccacanna aatcatcctn 120  
 catctatacc agagagcaac ggaaattaaa cacagaaaaa aagaaaaaga aaaatctaag 180  
 ccatttggtg gatacaaatn gcaatgagct caacttaaag tctggactnt agaattataa 240  
 ctgccaaatg aatctcagta ctttaaagct gcaactcaag tgctgggagg actgggtgcg 300  
 gtgattcccc caacttccgg gttccctctg cttctaacta ccgcatttct cccatgtttg 360  
 tagggacctt ggtgattgca ttgttatttg gaagtagaag tgacanaata attntggctc 420  
 attatgacat c 431

<210> 14799  
 <211> 397  
 <212> DNA  
 <213> Glycine max



tgttgtgact gccattccta tacggccaag tttcccacca aacccaacaa tgtcattact 120  
 cagtcaataa caaaccacct ccttaccacac caccagttta tccacaaagg ccatccctaa 180  
 atcaaccaca aaacctgtct accgcactct caatgatgaa gaccaccttt agcacaaacc 240  
 aaagaaaaca ccaaccaaga gatgatattt gcagcgaaaa gcctgtatga ttcaccccaa 300  
 attccggtgt catatgctaa ctngctccca tatctac 337

<210> 14802  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14802

ctaagtgtat aaagtatnnt aaaaatatac ataaagatat aattttttta atatgattaa 60  
 tgttatagta ttaaataat aaacaaaagt aaaactttat tctaaaaata gacatacaaa 120  
 aaaagattaa attgtaactt ttatccttat ttaattcata atcagtaatt ttttgtctcc 180  
 ctattttttc aatgatttta atcttcacat tctagaaaaa ttataatttt gggtcaattt 240  
 ttaaattttt gtatatttta tttctttttc tttttacatt ttaattaatt aaaatatttc 300  
 ttgatataac cttaaagtaa taagtaacat ttaggattta attagactaa aataaaagaa 360  
 ataaaataaa tgtaaaatga caattntttt aaatataagg actaaaataa aataaatgta 420  
 aaattacaaa ttntaaaaat atagggacta aaataaaata aaaa 464

<210> 14803  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14803

agctntgtct atatgtctag tacctcatca ctttgtttcg aagctgtaca ctgattgtct 60  
 ctcacaccct ctatatattgc gagccactcc aatccttgtg atcggactct catccactta 120  
 tgatatgcgc cgatgatccc attactgatc tctctaagct ctatgttctt tcttcacgcc 180  
 gcatcccatg ccttgogaac tccttgaggt accctcgcgt tgcggtcact gaaaccccg 240  
 gcgatgaaag acgtgatgct ttcgtctgat ggcactcctc tcatggggta gccaaagctgt 300

cttatggcga cgacgggatt ataattaatg caacccttt gtcccatcca gggaacattt 360  
 ggacatactt cgcatgaaga tagaatcctg attc 394

<210> 14804  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14804

agcccgcgac atgtaaccca ccatcttctc atagtagaac atcggttatg tgtccattat 60  
 cattgntatc atctccctct ccatcagtgg gggtagtact tgagctacca gatccctcca 120  
 cctttgggag tattctttga aagattcatg ctccctctta cacatgttct gtagttgtat 180  
 tctatccgga gccatatcag aattgtacta ataatgccca atgaaggcaa ccattacgtc 240  
 cttctgggaa tggatccgag aaggttccag attactatat caggtgacgg ttgtcctagt 300  
 aagactttcc tagaagaaat gcatacaata tttttcatct ttgcgatatg ccctcattat 360  
 cttgtagtac attgtcaggt gattcttggg gcangtagtc cccttgtagt tgtagaaatc 420  
 cggcatcttg aactntggag gaataacat gtcaggcact 460

<210> 14805  
 <211> 204  
 <212> DNA  
 <213> Glycine max  
 <400> 14805

gatgtgctga caaatatttt gcacacattc cttggctctt tagaatacta atagtgatgg 60  
 tgatcgcggc ggtatattac taccggtggg aatttgcatt attctgagcc tgaggcctct 120  
 gatttgaggc atgcggaaga gtactcattg tcggaaaggg tgtgttccgt tgcgcaagt 180  
 atgctctttc tcagctgtgg ggat 204

<210> 14806  
 <211> 99  
 <212> DNA  
 <213> Glycine max  
 <400> 14806

agcttggtgt gtttcttact aattcagcga tctctgacac tcgttgaact tttatcttat 60

gcatagtatg actatacagt gtccaacaat attgactct

99

<210> 14807

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14807

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ctaatacact cggcaagggtg atacaccaag tgattgatga cacctaattct gtgttcaccc 120

aagacaggca tatactggat gacgttctta ttggaatgag cttgttgagg aagcaagagt 180

aagtggcatg gaaatgatta tgttcaagggt tgatttccag aaggcatatg actcgatgga 240

tcgtgattgt cttatgatga agacggaaga tatgggtttt ctttaagacat ggcattgatg 300

aattcaagaa tgcctgtaaa ctgcaacaat ttttggtata ctaaattggga gtccatctaa 360

agaatatgtg tatgggtcaag gtcttgggta acaagatcct ttatcacctt tctgtgtct 420

ga 422

<210> 14808

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14808

ntgagaaagg tgatgtgaac aagcgggttac tgtatatagc cttcaataag accccaattc 60

tgagttcatt tctttgcttt ggttgctttc cattgtcgaa gctcttcaaa gcgcgtttga 120

ggattcccca attgaaggta gaccacacaa ctgaacgtgt gttcaagaac ctcgttgctt 180

ttgagcagtt tcaactatcca gacaagcctt acttttgcaa ctatgtttct ttcattgact 240

ctctgataca cactcagcta gatgtggagt tgctgggtga gaaagaagtg attgtgcatg 300

aacttgcgag tgatgaggaa gtggcaactc ttgttaatgg tgtatgcata catgttgatc 360

caaactcaac ttgttaccat caca 384

<210> 14809

<211> 356

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14809  
  
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 ctagctagta tgataaaatc attctccttg actaanatat cctcattaaa atagttaaaa 120  
 tctaattgta aattagtcta aatagtaata tttttgccat agcacagtat acaatataaa 180  
 ttgttatttt tatataacta aattcataat aataaaaaca ttaatatgta aatcatatta 240  
 caattaaagt tcataatana taaatatcta gaacatataa attatatgtt agatntacaa 300  
 taaataatct atattgtagt acaagagtac tgttaactat ntgataattc ttttaa 356

<210> 14810  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14810  
  
 gtacagagaa gagtggaagg tgccgccgct ggcaaccttt attaactcca tgagcgtgtc 60  
 cagcacgagt tccttgagca tctcatctcc ctatggcaaa gcgaggacgt tgatgaggga 120  
 cttaaggaac tcttcgaact tggaacggaa ccaggagaag tagatgaact cgaatggctcg 180  
 tcaacagtgg agggagcggc ggcgggcggag agtaaagncc cttcagtcct taaatgaatg 240  
 atacgatatg tttcttcttt tacattcgag taggtaggct attatagtgt ccccttgaat 300

<210> 14811  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14811  
  
 agcttgata atgtctatac atgatacatg tcanggctcg gtttggttca aggataaaaag 60  
 ggatgcccc cattatttcc atgacacata tgcaaaaatg atgatttgn aaatttatgc 120  
 aaaactggtc atgcatgcac ctatgcgaac actcaagtgt caaattttta tggatcatgtg 180  
 atgctagggc tcangattca ttntcctcta ttttaaatac acccaatgtt tccaaaatat 240

gctcttttat ccatttgtgc attcatccga gtccattttg ggcgtccggg gaaatattca 300  
 cagcattcac ccttcaggtg tatacacatt tttaaaaact agttatgac agtgaatctt 360  
 ttcaaagaaa atgtggaagt catctctttt caaaagcatg ttggttgttc agcttgacaa 420  
 catatttttc tcttttctct ct 442

<210> 14812  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14812

tcttgcgtag ccgctcttgg tgctcagaan atcccaaaa catatccctc ttattactag 60  
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgggc gttcccttat 120  
 ttcttttctg caaaaaagaa aatcaaacgc tgtgaaacac atggatgaag tctaagaaa 180  
 atcaatatca aagaaaacat ggatgaaatc acaattaaaa agcacaacta cctatctttt 240  
 agagtccttt ggtaattttg tcttgtctcc ttatgtggag gggtttagct taataatgtt 300  
 atactttcgc cttccaaaaa aaacttatga ctaatcctct tttcattaat ccaattgtgt 360  
 atgttattgt ataaaagatc atgggttctc cacct 395

<210> 14813  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14813

tgtettatat ctagtactct catgccacag tggttgtctt ttagaccaca tataccatct 60  
 tacagaatat attttatatg aacttgatag gattactcta aatgatgcaa ctgtctttct 120  
 aattatgtaa catacgtgaa tatcttgaat ctcaatgcat aacatctaata tacacctgac 180  
 taatgtgatg tgaattgatc gagactcggg ggtgtcacaa tgaagttata ccattgaag 240  
 tcgacacgtc cggaagttga attacacaga actcttgac agtcaaata gactatgtnt 300  
 gtttgtctct tgttatcgtg catcccagcg aatatacgat gaatacgtgt actggcactg 360  
 tgaataacaa ttcaggatca acaaaaggca actgaaagt acccacttcg taatngtcat 420

gtcaccttac tatctacagc ttgagtggat ctatgtn

457

<210> 14814  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14814

agcttgatag atcttgggta gtcaaagaga agttcaagtc catagccatc atagtctgaa 60  
gagagtatga tgaactaagg gacgtcaata tggccacagc tgaagccttg gaacgagaaa 120  
ccaagaatgc ccgataggaa gaacacgacc aaagcaaagt tttgaggggc tttatatggc 180  
agcaatagtg agtcaagct ctgaatatgt gaaaggaatc atcacggggtc ataggcatga 240  
tcttgaagga cgagctaaag gtttgcctta ngtcgaaaag aaatttgtcc caacagttaa 300  
tcgagactga agggaatatg tgggccatca tcgataagtg caaagagaag ctaaattctat 360  
cggcgactca c 371

<210> 14815  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14815

tattaattag tgcggtcaca ttcaaaaccg tcgccgtggt tctttttttt tatgttggca 60  
caaactcttt gactagggtca ccaatgttga agttacggac cttacggtgc aacttggtat 120  
cacacactca tgatctcggc ggcaactatc acgttttcac gtcaaagttc ttacacagct 180  
atagttgcaa cgacacaaaag aacatgtgca tttccatagc ttaaaagtcg atgttgcaag 240  
agataatata aacaacaaaa ctaagattaa gatgaacgac gtaaaaataa agaacgttaa 300  
ctgtgagatc cataacttac ctgtcatggt agaattaata ttntattaac ccttgaactg 360  
gaaagtatgc tatgaagtct atctctggcc aattggagca ctcganagtt ctgggtcaaat 420  
aacgtttaat tgatta 436

<210> 14816  
<211> 389  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14816

ctactatnga attcaaagct gaggatgatg tatgtgtttg gagacttaac ctcaattatt 60  
catcaactca aaggtgaatg ggaagggtga gatgcaaaat taatctcata ccactcttac 120  
attaangtaa tgctggaaca gtctgatgaa attactttcc atcacatccc ttgtgagaat 180  
aaccagatgg ctgatgttct agcttcttta tcttcaatat tcatgataag tcaagaagaa 240  
gaagtaccac taataaatat tcagaattgt gttcagccag tgtactgcta agcaatataa 300  
gaagaattag acgggaaagc catggttnta tgatatcaag cattatatga cagataaaga 360  
atatcctccc acactntaga aaatgataa 389

<210> 14817

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14817

ntagatgaat attcaatgtc ataattatac tttatttaca tttttaatat ttttataaaa 60  
tgaacactct acagaagatt tttttaaaaa ttgcattatg catattttct atttcatcaa 120  
catctttttt ttacgcaa at aagaaaatga atataataat tattttcaga agttattggt 180  
ttgttttagtc aaggactttg ggcatagaaa agataattaa ataggaaaat tattcaaadc 240  
ttaattaagt ctagtccaac aaaaatttat cagcggggtt atttagcaat tattaagctc 300  
aaactcaa at gtcagataaa tacttggaat ttcacaccac atctactcag ttatggagcc 360  
catcacccgat atatagtcaa accaataagt ccttaattca 400

<210> 14818

<211> 514

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14818

naacgcgaat ccattagaac tgccagnnaa nttagnnncg cgcgctgcga tacagtagag 60  
ctgccgcgat gcagctctac ccttatgttg ttncatgttg ctgctcgctt atctttggcg 120

atggtgatgg aaccacatgt accatcttgc gagtatccta cattctttca ctgacacatc 180  
atgtcgagca tgcttctgag gaatgattcg gtggattatg acgacggatc aaagattcct 240  
ctgttcttgg agggatgacc atcgacatga ccagatctac tatggttctg atactcccag 300  
gagttctaga tatgctcctc gacatgttct tgcattactc ggaggacgtt catggcgctc 360  
tgatagatta tctacactta caatgcacgt ggattgctgt tgatgacact aaattctata 420  
gtgtgctcat atgaggaaag acaaagaatc tccttctccc tccgcaggaa tgtctttcga 480  
gactagaata cactcgcaac agacctctat aatc 514

<210> 14819  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14819

ntgaatgctc tattcaatgg agttgacaag aatatcttca gtctgatcaa cacatgcaca 60  
gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaaacctc caaagtgaag 120  
atgtccagat tgcaactatt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgcac tgccttggga 240  
gaaagaatga cagatgaaaa gctggtgaga aagatcctca gatctttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt cccttcaaac ctttgagcta ggactctcgg atagggctga aaagaagagc 420  
aagaacttgg cgttcgtgct caatgat 447

<210> 14820  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14820

ctctaataac tcccacactg tgtgggggtg ccattcttgg atggccttga tattctcagg 60  
gtccacttgg accccatttc taccaactac aaaacctaag ataactatat tatctacaca 120  
aaaggtaac ttctctatat ttgcatagag ggtgtttttc ctaaggactg aaagaacttg 180

tctgagatgt cctaagtgat catctangct cctactatac acttaaatat catcacaata 240  
aacaactaca aatctaccta tgaaatccct taagacatga tgcataagcc tcataaaggt 300  
gcttggtgca ttagatgagc ccaaaagcat cactatccat tcatacaaac cagacttggt 360  
cttgagagca gtgtctcact catcaccc 388

<210> 14821  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14821

ntgcgatnt ggtctttgcc agtgaaagga tcgatgtggg tcttattaaa ggcaaantnta 60  
ntcatcctgc ttggacgaat gagaaaactg gggcaaata agaggggtgag gatgaagtan 120  
aagcccatgc tgtgactgcc attcctatat ggccaagttt cccaccaacc caacaatgtc 180  
attactcagc caataacaac ctttctcatt acccaccacc cgatcatcca caaagggtcat 240  
ccctaaaatc aaccacaaag cctacctacc gcacttccaa tgacaaacac cacctttagc 300  
ataaaccaaa acaccaacca agatatgaat tttgcagcga gaaagcctta gaattcaccc 360  
caattccagt gtcctatgcg aacttgctcc catatctact tgataattc 409

<210> 14822  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14822

tataagttac agttaccaga acagtctaag atacatccta tnnttcatgt ctctttattg 60  
aaaaaagcta ttggggaata ttctgtgtta ggagaacttc ccaaggaatt agaggttggt 120  
cctgttgatg acatatatcc agagaagggtt attggctcaa ggctgatcac acaggggggt 180  
gtctcaattc ctcagaacct tattcaatgg aagaataagt ctagtgagga tgttacttgg 240  
gaagacgatg ctgtcatatc 259

<210> 14823  
<211> 371

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14823  
  
 ctaactacct tгнаанntcc attanchant ccgntgaaan gnnttaaatt aaaaacttat 60  
 tccanannaa anaaaccgaa ttttaataaa tgccccccaa ccaannaccn naanaaaaaa 120  
 ccaaaaaaat ttaacaatta ccttctccac tacactctct acccccacct ccaatattac 180  
 cctttattac cactatcaaa tctatacncc ccttactctt cctacctctc tctcctctct 240  
 ccccacttcc cccctcctcc cactaccatc tccccacttc ttccccctc tacttccctc 300  
 ccattccctt atctaccccc ccattcttc canatcctcc cctacctctt tctctcctt 360  
 ttcttcccc c 371

<210> 14824  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14824  
  
 agcttagctg ttatttatgt ttcaagccca aatgaccctt gcatgagggg atgtgttatt 60  
 cacaatcatc attgggtctc tagctaaactc gttaagcttt taagattatt gggtcttgac 120  
 atgttntatt cagatgctct ttgtgggtct atttataaac catatgcata caatgtgaaa 180  
 tgtttcatct attcttgaaa actgattcct tccataaata gccttaagtc actgttaatt 240  
 tttctgaaat tgggtccaagc ggactggaga gaggacatta attatgggtca tgggtataga 300  
 ttggaanaat cctttaatat cagaatagtc tccctgctca aattttcatt atgatgataa 360  
 ttttaagtgt catattgtac attgggttgt tggattgcag aatactttaa ccatttcctt 420  
 ttcaggatca aactgcatat at 442

<210> 14825  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14825

tccctantta ttggatatat aaaaataatt ttttattctt tcattagnna aataaccaag 60  
 taagacattc atttatcttc gaaatcatca ttttaatgta tttatcttct aatactatga 120  
 aacccttatt ttaattaaaa aaatcttttt ctttcattta ttttaattttt aaaaactcta 180  
 ttaattttta aatnttttta tttaaaaaaa aggggtgtta caaagggag aatttgtagg 240  
 gctctgtgtt cttgctgcaa atgcaacctt gctgcttcag tgcttctttg ctaattactg 300  
 gggcattatt ttggttacac tgtttgcttc tcccacgtta atgaataatt tatggcaaat 360  
 gctanagaca ctgggttagta agaaccttat ttattgatna acaaanggaa tgatttcatt 420  
 canaacttac ttattatatt tggatatat 450

<210> 14826  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14826

agcttccttt atattatctt tatagaagct agagcttagc tacacgtacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccnc tataatagct 120  
 aagctcacc ccatgaaaaa atacatgaaa taaaaaaaaa tccctactac aaaggctact 180  
 caaatgcct cgaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg 240  
 cccaaacgaa ggataaacct attctaatat ttacaaagat aagtgggctc atacttagcc 300  
 catgggctng aaatctaccc taaggctcat gagaacccta gggccttccc ttggatctct 360  
 ggcacaatct acccgagtc ttctatccaa tgcct 395

<210> 14827  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14827

cttgtagctt caatgcaagg aaacatgctt atggctatga atctcaaaat tggttataga 60  
 gttagaaaaa catgaaaatt aggatttgct tgtgagagta tttgctcgaa ttagggctgc 120  
 cccatgtttg atacttcaca tagaggcagc gtggaaaata ctttgcaata gtgtgtatac 180

ataggtaaat ataaggagta tgaaattcct agcanagtgt gaatgaatgt atgatagcat 240  
 ggaatgccct cttgaatgaa aatgtgtgca ggatgtaatt agctttccga tatgcatata 300  
 aataaatatg agagaaacaa tacaaacttg tatgggtggac ttcacatgta tgtaagtagt 360  
 ttgtgatagc 370

<210> 14828  
 <211> 491  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14828

gggagtctcg actgcatgan cacgtgtntt taatataccc ctctgtggac atagtgccga 60  
 ttgtagtgc aacacccgct ctttttatgc ttctncattt tccttggggg ggggtcatat 120  
 caatggactc ccaaaaacaa ttcactgtgt ttacaatgtt gactgatgca taatatcata 180  
 ctttcacctc ccaacacatg tgaacctcat gggttgcata ctttctttta tattatcagc 240  
 ttccattcac tccagccaga taatctattt atggattatc aatcagctat tcaaattgcgt 300  
 caaacatgt ttatattgac gcacaaaaca tatcgaatca ttacggcata tgcattgcga 360  
 aaaacacata atggccgttc taacgctggt cacttggatc ctactccac tttctgatgt 420  
 ttatccaaga cgtttcttct gtcaattcat acttaatat caagttgaaa tgtgacattt 480  
 ttccacctc g 491

<210> 14829  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14829

aacgnnnacg cnggatagtg aggagttagt aagtattctc ttctcgataa atagattgtc 60  
 taaaagatta tatctgatct tgctgctctt gcagtcaact tgataacaat gacttttgtg 120  
 gatatagcat tccacaatct tatggcaata tctcaaaatt gcaaaattgt aagtgcata 180  
 tgtgattcca tgtttgatg tatgatgcca catacaagta atggagctta tgtgtatgag 240  
 cttttatctt catgtatgga gtgaaatacc agtctacatg ccattcttgt atataaatct 300

tcaattggag aaaaactttg tacgagatta ataatatatg tcaaacattc aactacatta 360  
 ttactatggg tctataaatg atattaaacg ggcaccactt ttatatct 408

<210> 14830  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 14830  
 atagaaggta tgttctaat ttctctacaa ttgcatcact ctctttatga tctggggaag 60  
 aagaatgtgg catttacctg tggtgaaaaa caagagcaag cctttgcttt gctcatagaa 120  
 aagctgacta atgcacctgt tctagctctt cctgacttgt ctaaaacttt tgagctataa 180  
 tgtgatgcct ctggagtggg agttggagct gtattgttac aacgtgggca ccatattgct 240  
 tattgtaatg aaagacttca tagtgccacc ctcaactacc ccacctatga taa 293

<210> 14831  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14831

taatgaaacg gcgagatgat gcaactccatg agaagttgga tcanatggag aatagagatc 60  
 ataatgaata agaaaggagg agacgatgga atgatggtgt tcctagacaa aaccgaattg 120  
 atggtattaa actcaacatt cctccattta aaggaaagaa tgatccggag gcttacttgg 180  
 agtgngagac gaanatagag catgtttttt catgcaacaa ctatgaggag gaccataagg 240  
 tgaagctcgc cgccacggag ttttccgact atgctcttgt gtggtggaac aagctacaaa 300  
 atgagagagc aagatatgaa tagccaatgg ttgatacatg gacagagatg acaaagatca 360  
 tgangaagcg gtatgtgccg gctagttact caatggactt gaaattcaag cttca 415

<210> 14832  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14832

gagcttatta anacccttaa aangttgccc cattttcgag nntgcngggn nnnanaatna 60  
 cctccnnata caacatactg ctatttttct gaccatagaa ttatcacgcg tgtctttata 120  
 attttggtt cccaataaat gcacctatct actttctttg aaagtttgac cataaaaatc 180  
 tctatactct ctattaaatt tcaacctcta cacatatatg cacttgaatc ggacttcatt 240  
 tgaaagtttg accattaaat ttctatgaca ttctttttaa tttcaacgtc tcatatatta 300  
 tgcgcataat cgacctcctg ctacaattat accatttaat atctcacact tcngtattaa 360  
 cttaactct catatatatc ccctaaccta attctgtaaa attatacatt taaattcaaa 420  
 cttctttttaa ttcaaccctc ag 442

<210> 14833  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14833

agcttgtctc ttagatgtcc aggaangata aggcggccga agggactagt tccgctcctg 60  
 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcgtt tctccgggag cgacgcgtcc agctcangga caacgagtat actgatttcc 180  
 aggaggagat agggcgccgg cggtggacat cactgggttac ccccatggcc aagttcgatc 240  
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggatggc gtgcgtgaca 300  
 tgaggtcctg ngtaaggggt cagtggatcc cgtttgatgt tgacgctatc ggccagctcc 360  
 tgggatatnc attggtgttg ga 382

<210> 14834  
 <211> 198  
 <212> DNA  
 <213> Glycine max  
 <400> 14834

ctatgttggg tttaaaattt ttataatctg ttaggaaggg cttaacattt ctggataaaa 60  
 taatttcttt actgaaaagt agtttaatga aagacatggc taccattccc gtaccactta 120  
 cggcaccaag aaatggcgac tacataaccc tatgagcgac cataatactt aatagattaa 180  
 agatcagcgc tcacacat 198



<210> 14835  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 14835

agcttttcttt ttgataagaa gaggaacac attatagttg gccacttggc tagctagcta 60  
 actactaaac tacatctctt gcctttttct tggagcccac tatttgtatt ttcttgtcaa 120  
 caatcaaaca ctagtttctt cttaagtcg aacagatcat cgaagtgagt tttgtgtgat 180  
 agaacaaagt cctctccact acattccttg tctctctagc ttgttttagca aagctgtgat 240  
 tagtgcattc ctcttctcag ccctagcttc ttccttaatc ctcttttggt cctccctttc 300  
 tctccatctt tcttccatca ttatcctctc attctccaac acctgcatgg cttgcctaca 360  
 ctcca 365

<210> 14836  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14836

accatatctt tgagtagggt tggcctgttt tttctcttta tcctttgcta gcatatagtt 60  
 tgtgagactt tctgantttg atttanctgt tggttccctt tcattctgaa tgggaacttc 120  
 cctagagttt gttactcttc ctaaaaaactc cacctcaagt tgggattggg ttggttcttg 180  
 gatctcaaca acttgaatag ttttcaccaa gattgtcatt tcttctctt taaatacaac 240  
 atcacaactg ataaagcatt tagtgaaact caattca 277

<210> 14837  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14837

agcttatgtc tgggtctagta cagatntgag catatataat actcctaaca attgatgcat 60  
 actaaattgc ttccatttgt tntcgttcca tatcatttct aggacattgt gcgagactaa 120

atttgtctcc tttctgaatt ggaacgggtg atgctgagca cttttccatc ctaaacctct 180  
 ctagtanttt attgatatat gctttctaag acaagcctaa caatccttgt gatctatttc 240  
 agaataattc tatccctatc acatagcttg cctcaccat attcttcatt ttatagttac 300  
 tagaaagaaa cttcttagtg tctgaaaaaa ctatatcatt agttgcagca ttatcatca 359

<210> 14838  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14838

tggaacagga agaagccatc agcaaagcac ctaagggctt tgttatctat atgctacatt 60  
 catattctag acatgaagag gcacaagctt gaagacaaga ctatacgagg tatcttcctt 120  
 gggatatagca atatctctaa gggctaccgt gtctacaact tgcaaaactaa gaaactcgtc 180  
 atcagtcgag atgttgaagt tgatgaatat gcttcttgga attgngatga agaanaagtg 240  
 gagaagaacg ttcttatacc tgctcaacta cctcaagaag aagatgagga agaagaccca 300  
 ggtgaaccac cttcactctc caccacacaa caagatcaag aactatcatc acccgagtct 360  
 actcca 366

<210> 14839  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14839

tttaagtttc agttgactaa tacttgtaat tagttaaagt taatgaaact tggtagtgtg 60  
 tcaataattg aacacaattt cagtggtaga gatgaactag tataaatctt tgtaacttat 120  
 atgtttcctt gtgtttttct gctttaaagt gacataaggt ttaaatttga ttttgttttg 180  
 gaaagttcta tttgttttac aaagtttctc ttcanatgat aactttgttt tggtaaaaaa 240  
 agacttgaaa attttctaan accacaattc aatctctctt cttgtgatat ttgcatttac 300  
 aatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 360  
 tatatatata tattctaaca actctctcat tgtctaaagt ctaattacga gttgactgtg 420

cccatcaaga atattgctg

439

<210> 14840  
<211> 269  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14840

tgcttcanag agatccagta aggataaagc ggctgattga actctgttcc gctcccgaat 60  
atgacagcca tcgttttatg agcgtgagc accagcagcg cttcgaggcc atcaagggat 120  
ggtcatttct ccgggagcga cgcgtccagc tcagggatga cgagtatacc gacttccagg 180  
aggagatagt tcgccgacg tgggcatcgc tggttacccc catagccaag ttcgaccag 240  
acataatcct cgagntttat gccaatgt 269

<210> 14841  
<211> 518  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14841

ngggcatgga ctgacgtgn acccctggca aantcagccg agtcccgcga tgctctagag 60  
atacctgcag gctagctgcc ngctcgttat cttctgtttg cagacataga ccaccgcga 120  
cccttagcat agtcatgcca aacgactact ctgcatggtc aacgcccacc atatcatgac 180  
tatccccggc atgacgatag ggaacgacat gccaatcttg gcccccttgt ccacctaaga 240  
gatacgtcta cccatgaact accagcgtca aactgcggcc gacatatccc ggactcacc 300  
acaccggaa gctaaactga ccggtgatca cttgatacag taaagagcga cgctcttgat 360  
gagacgatat gatcttacta tggacatgac tcttacacca ttgtcggatg tatcccatgg 420  
atctatcgat ggcgacaccc tactcctccc cgatgagagc ccggactttg ctctatcgtc 480  
aggcgacatg actaatgaca cctatagtgt atcgcta 518

<210> 14842  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 14842

gactggaaca tgacctacat ccctatccta tcttattgtc tgtacctcag cagatgacaa 60  
tatctttatg ctctggacac agcttacaaa ttctctacag ggaattataa gttcaagaat 120  
aagataataa acctgaataa gagtaaata taggggctat gaactacaag gaattgacta 180  
cttactccca agggctcgtc ccaacaagaa gaatgtcgtt ttccatctta acactccac 240  
ttttcctttc cattcccact aattattgca ctgctaata tagttgaataa cttcttcagt 300  
catttaatac tcacaagatt caatatgtga 330

<210> 14843

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14843

tgcttctcat ggaagtnntc ttaagaaagc ttctcaagga agctacctag tctataaata 60  
gaagcatgtg taacacttgt tgtaactttg atgaatgaaa gtcttatgag atacacttca 120  
nagttccact tctttccctc tnttattcct tcaatntcgt gctccccctc tctctctttc 180  
ttttcctcca ttaaagcacc ctcttcaagc ttcttatcca aggccattct tgggtggtgaa 240  
gctccttctt ccttggttta ttccctagt tagtggtgcc tcctctcct cttctccttg 300  
cctttcgtg catctncatg gtgaaaaatc accattgaag gacctcattg aagctcaaag 360  
atccaccctc atagaagctc acaagcaagc ttcaccatga catc 404

<210> 14844

<211> 272

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14844

tgtattcaaa tgggagatgt tacaatgatt aataacatat tttataacat gatcgtttgg 60  
atgtcctaac ctgaaacaac agattntgag cctatgctag agctattatt gacagtagca 120  
attgaataag agaagtcagc atttgtaaca ggggcagaag tagacatcag cagggaagga 180  
ttgccttgaa gctggagatt gtgaaatgaa taaatgccat caacaccac aactccttga 240

aggaggacct tatgtgtctn ctgagatttc ac

272

<210> 14845  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14845

agcttatacct tatgtgtctg cctccggact tcaccccccg tgccacctcg gaagatttaa 60  
gccaagcccc tacttttcgag gggcaactcc caccttatga agactatccc gggcaagacg 120  
ataggggaagg agataccaat cttggccccc ttctccacct canagatccg tccccccatg 180  
aactacccca gccaaacata gtccaccata tcccggcctc acccacaccc gtaaaagaat 240  
ctgtcccctt cgcggaagat aagggaaga ttgagggcgt tgaagagagg ttaagagcag 300  
tcgagggcct tggcaattac ccattgtcgg atntagcggg tntatgtctc gtgccaata 360  
tcgttattcc tccaagtcc anagtaccgg actttgat 398

<210> 14846  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14846

ccaccagct cgcccaggcg agcaagggtg cttcctccag attcaacaac cttctggagg 60  
aatcttcttg agggcccaag tgggtctggt tgctatttgc accccctttt tactaaatgc 120  
accccttttt ctattttttg taattctttt tccgtaacgt tacgaaactt tacgaatttc 180  
gtaacgatac ttattttcct tccgtaagggt tacgaatcct tacggattat gtatttactc 240  
ttttttacct ttgaagaag ttacggaaac tcacggattg cgcanaaaca cctctttccg 300  
acttccgcca cactacggaa ttacacggat cacgccagcc tgcttccttt tggatttctg 360  
agacgtctcg ggacttcatt tattgcatgt catcaagtaa taatccctgg acgaaaatan 420  
ggtatgacag taccaatatc ctcccccaaca atatcactac 460

<210> 14847  
<211> 431

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14847

agctnctaata tanatanttt gaatatccag aagattcatg gtgagccatg atagcaataa 60  
gctagtagcat ggagagaaat gataacaatc gaaatccata tatcgaaaag cactaagaac 120  
acaaccgggc aaaagaaaca catattccaa tccaaattca gctcagataa gaagaacagn 180  
aaatagaaag aaataaaaaa tatataaata ctaaccagaa atgaggataa aaggattggc 240  
atatccagca tgagactcaa ggaatggaat ctgctaaagc cctcaaaaga tgaactctag 300  
aataagcaac aaccagagag ttgtaattat ttattgagaa gcaagtagat tcgaatagtt 360  
aacagctcaa aaacgcaata gatgtacagg gtagatgaaa aatanaacat acacactatg 420  
atctgaagaa g 431

<210> 14848  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14848

acaaaacttc agaatttgga tattgaccta tatttggtct ccttttattt cataatgggt 60  
gtcttcaatg aaagagtagt tcatcgactt tataactgt tctatagaat ataacctggc 120  
aatgaanatc ttatagcaga tcttttggtg ctgcagtggg gtttgcgatt gatgcctcca 180  
ttaatggtga gacagtagga tatgctacta tagtgcagat taatagcagc acagctgatg 240  
gatacaaagt gggctgcagt tcttntaatc ctgcttataa acaaggatcat gatgataata 300  
taactcaaga ttcttctgga ggggacacaa tcccatcagg aattcctgca gtatcggttg 360  
cgtcagttga tgagccctat gtgggcccagg agtttgaatc tgaagctgca gcacatgcat 420  
tctataatgc atatgctaaa cgtg 444

<210> 14849  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<210> 14852  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14852

agcttggcat ttgttttagat tcaactngaca ggaacgtctg aactcgacag agtgggctgcg 60  
 agcgatggca naagattgtg gaacagagct ttcaaccttc cagcagagaa agtgtactgg 120  
 ttgatctcct canaagattc atcccgtggc acataaacag gatgaggctn ttcaattcta 180  
 ctctcagaca gtggatctaa ttgcattgac attgcaccaa ttacacaccc cattagacat 240  
 gctatttgct cattccanaa cccaacacaa aaagtaacta acaagaaagc aaattta 297

<210> 14853  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14853

aagcttgata aagtttccac ttcccgtggt accggcaaag agatatttta tttattgtca 60  
 accacattgc aattttaagt gtatttttgg aagaagaaaa aatgtttttt taaataaaaa 120  
 tattatttct catacacgag tgagaaataa cacaagttct tgttcccctt tntatttata 180  
 ttgctgact gtgacttagc cgcacatgca acagataagg aagagcaacg tcatgccttc 240  
 acttttcaat actgcttggg ttcagaanaa ataaagagtg caaatattcc tgttttggag 300  
 ggagtggagg tttcacctga 320

<210> 14854  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14854

cggggcggt gagccatgca gacngcaagg tgaatnagct ccggcccggg atactctgag 60  
 ccgacctgcg gcatgcaagc tttgcgtttc ttcattgatcc attacgacac gagccgcgtc 120  
 agatagacat gacggtgctc tcacggggcca cggggagata gacaagaccg atgactctct 180



cagagaagag gatatggacc gcatacgaag aatgtgcccc ttcgccttgt actaggtgcg 240  
 tggcttcgtg aacaacccca gccaaaggtg atgcctcatg ggctatacac aaccctgacc 300  
 catcccatgt gcacctcgcg tagacatata aatggaatth atcctcgcgc ttgctaagac 360  
 gcaaagagca gtagacggcc tcgtcgagga ggcggagacg gatatcacga aggacagacc 420  
 tttgccatgc cacaaagtgg atgacgctta ccaactctga ggacctgtta taacggaagg 480  
 acgacattgc tagggggcct atgacattag gtgcaag 517

<210> 14855  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14855

nggggtcttt ttggggctgn antacgtgac nttanaatac tatacttaag cgtctattac 60  
 gtcggattat cgcattgtcca atgcattgatt gttgtatggt tagtccaaac aaaatcgatc 120  
 gtgacaatta taattgattt tgacaaagaa ctcaatgtgt tatcaataca tatattttct 180  
 gttaaacgtg atcaaattaa gttactatac tttaatattg atgaatgagg acgttacatt 240  
 caatacatgt ctatatatat atatatatat acatatatat agctatgtat atatatctct 300  
 atacatagat actcgaaagc ggaactctag aatgcacgat gaattctcac aagagagaga 360  
 atattgatgt gcctgataca atcgagtgcg caaatttatt gatacaacac catcataaca 420  
 tctttctgag tactagatta acacacattt gtctctctga atagaaacat gctctcatga 480  
 ttttgacact gcatgcgctt cgcattgtta tacatag 517

<210> 14856  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14856

agcttttaat tattctagaa ttttaagggtc aaccttaaga tgttgccaaa cttcataagg 60  
 aaattagaac cttanaaaact acattagcca aatntgtcaa tggaatagat aatcttaaca 120  
 aactattang gcactataca agttcctcaa acaaactctag aaatggatat gatgggaaga 180

tctatgttca taataagaat actattatntt gttatntttg tggtaagact ggacacatga 240  
cgcccaagt tagagatcga cctaagaagg gtacaaccaa tacctctatg gctaacacaa 300  
aaagaccan aaagatttgg gtacctaaga aaaagattat tcctattgca gatgtccttg 360  
atagcagaaa gtagatgcct atcatggtac ttggacagtg gctgctaacg acacatgaca 420  
a 421

<210> 14857  
<211> 444  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14857

tcattggaaa ccagtgggtg gaaggcaagg ttggatggtg aatttatgtg tgaaagtcac 60  
aatcatgaat tggccaagtc attagttgga cattcatatg ctggtcgatt gactaaggat 120  
gagaagacaa ctattgttga tatgacaaag tcaatggtga aaccaagaaa caatctccta 180  
acgttgaagg agcacgatgc caatagttgt acaacaatca aacaaatata caatacaaga 240  
agtgcataat gttcttccat aagagacaat gatactgaaa tacaacatct aatgaagctt 300  
cttgaacgag atcagtatat tcattggcat atattanagg atgaagatgt tgtatgtgat 360  
atcttctagt gtcacctga tgcaatgaag ttatgcaatg catgtaattt ggtgtttttg 420  
ataggtagta ccctacaaac aaat 444

<210> 14858  
<211> 397  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14858

agctttaagt gataatggtt caaagccnca ctttgagggg gtgtctctgt ttctttctct 60  
gtccatgaaa cttctctgtg tcaattgatg aatgagcccc acttaaaaag tttgaatatt 120  
gaggtgaatt atctttctgg gtgtttttca agagagcaag ttcttgaagt acttgggggt 180  
tatgtggaat cctctgtctg gggttatggac gctgctgcta taatggcaat tgcacttgcc 240  
aatgganggg tgagttgagc aaattcaatc ttgggagttt ttaatcacta tggttgatgc 300

tccatagatt atcttttaaat ttttttttat gcaggtgagc cccctgattg gcaagatttt 360  
gttggatcat caccttgctt ctcacatcaatt cactatc 397

<210> 14859  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14859

acatcaagag cacaacanag aaagtagtga tatagttatt tcttcaaatt atggcagtgt 60  
tgaaatgccca caagaaattg aatgtgagga acacaatggt gttgatgagg gaaggaatca 120  
tggtcatgaa caacataagg aagatagaga gaagaagaaa gaaagaagaa atgataatgc 180  
acaacacatg gatgattatt attctaaaaa attgacaagt aagttggagc ataaacgcga 240  
catgtcaaga gctctatagg aggtttgatg agaacaaagg agttgtacaa ctgcagttgt 300  
ggccctttct tttg 314

<210> 14860  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14860

agcttgtgat tggctataca tgatacatgt canggcttgg tttggttcaa ggataaaaagg 60  
gatgccccac attattttcca tgacacatat gcaaaaatga tgatttggaa attttatgca 120  
aaactggtca tgcattgcacc tatgcgaaca ctcaagtgtc aaatttttat ggtcatgtga 180  
tgctagggct caggattcat tttcctctat tttaaatcaa cccaatgttt ccaaaatattg 240  
ctcttttatc catttgtgca ttcattccgag tccattttgt gogtccgggg ataatttcac 300  
agcatttacc cttcaggtgt atacacattt ttaaaaaacta gtaatgatca gtgaaatttt 360  
tcaaagaata gtnggaagtc atct 384

<210> 14861  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14861

tactaagctn tgaatgctct attcaatgga gttgacaaga atatcttcag tctgatctac 60  
acatgcacag tggccaagga tgcattgggag atcctgaaaa ccaactcatga aggaacctcc 120  
aaagtgaaga tgtccagatt gcaactattg gctacaaaat tcgaaaatct gaagatgaag 180  
gaggaagagt gtattcatga cttccacatg aacattcttg aaattgccaa tgcttgcaact 240  
gccttgggag aaagaatgac agatgaaaag ctggtgagaa agatcctcag atctttgcct 300  
aagagatttg acatgaaag 319

<210> 14862  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14862

agcttttggg atcttgcgtg tgattggcac accaacggat gccccttgac ctgcaaaaat 60  
ttcttgaagc tttgcaagta agtgctccta attcctcttt ccataaccct aaactctttt 120  
tcaattntat tatcggtgtc tcattcctta ttattattcg ataatttttt ggggtgcttct 180  
gaaacaaaaa cctttattgc tcaacgaatg tgtggtttgg gaagcaatat ttggttagcat 240  
tttaagcgtt taaggctcact gaaatgtgtc gtttaagaat tagaaaataa gagaggatag 300  
gggtggttttc ttattgctat gttacattta tgtgatgg 338

<210> 14863  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 14863

tactaagctt gccgaatagt ttccgccgga aggatgaagt tgttttatat aggcaattga 60  
ttatcctgct gtgagaatgg aagcctaagc aatgggagag aataagaagg agagaagacc 120  
catgctgtgt ctaccattcc tacatggcca aatttccacc tgctcaacaa tataatactt 180  
accaatatca gcccttctca ttacctacca cctattatt agacacccat catcacaagg 240  
ccaccctaata cagcaciaaac ctgctactgc atattcg 277

<210> 14864  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14864

nnnttcgggc tggacctaca gctangcann acangggagt tgagctcgta cccggtgtca 60  
 cccgagtcac ctgccgcatg cttctttgct tatcangatc gacagtagat gaagatggac 120  
 atcctcctca agccttgaag cagcagcaag ctctcactc tcaagaccct gcacactatg 180  
 cattacaaga taaaatatgc ttacgaacca tccattgtct tcattctagt gttacagctc 240  
 aagcctatga tgtaatccag agattcagat caacatctgc aaaaggcgct tatattctac 300  
 aatcgatcat ctcatgtgtg gtttataggt gagttgttac canattgatt ctgcgtaaaa 360  
 ctaattctaa cgtgatgcga gtcattgtcg atgttattat tcgtaaacaa agtactaaca 420  
 aactcagtat aaatgtagct agatgctgga accaaaatgt gaaacttata gtgatgcacg 480  
 taactgggta tataacatga atcaacgatg cn 512

<210> 14865  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14865

tactcagcta cgcatttaac ccnattaaat ataggtgtgg cttatcttta tttaatccaa 60  
 ccaacacatt gtgattgtgg tgggaagaca agaataattt acaggaggagg tagcagcatg 120  
 gtaaggaggagg agggcaataa cgtaatttga agtggtgtga aaattacttg acaggcaatc 180  
 tttgtctcat atgcaataga gttacacca aggcagcaca caacacagcc attcccaaag 240  
 agaaacaaac acagttgcat tggtgcaatt gcaactaata tccgcgcctg tgatcgacc 300  
 ttcatttcan aacctgctcc atttttttct ttctttcttt cgcattcgta gctctatctc 360

<210> 14866  
 <211> 137  
 <212> DNA  
 <213> Glycine max



<400> 14869

tatcatactc agctggaagg atgcttcaat ggaggaaaat aaagacggaa agaattgtaga 60

gatgggggag cacgagatag aacgaatgaa agaggggagag aagtggatct ttgaagtatg 120

tctcacaaga ctctcattca tccaagttac aacaagtgtt acacatgctt ctattttatag 180

actacgcagc ttccttgaga agctctcttg agaaaactta cttgagaagc ttctttgaga 240

aaacttcctt gagaagctag agcttagcta cacacacccc tctcataact aagctcacct 300

ccttgagaag ctctccttaag aagattccta tagaagctag agcttagcta cacatacctc 360

tctaatagct aagctcacct tcttgagatg ag 392

<210> 14870

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14870

agcttcggat taatgtgatg aggtacaagc octaaaggca gagcttgaaa gagaccgagt 60

agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120

ggacgtcaat atggccaccg ctgaagcctt ggaacgagaa accaagaagg cccgaaagga 180

agaacacgtg ccagcaaagt tttgaggggc tntatagggc agcaatagta agctcaagct 240

ccgaagaggt gaaaggaatc atcatgggtc anagggcatga tcttgaagga cgagctaaag 300

gcttacctta ngtcgaanag aaatttatcc caacagttaa gcgagactga aggggaatatg 360

tgggccgtca tcgatgag 378

<210> 14871

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14871

tgtagaatgg ctagacatga tacatgtcag ggcttggttt gtttcatttg taaaaaggga 60

tgccccacat tattttccatg acacaaatgc aaaaatgatg atttggaac tttatgcaaa 120

actggtcatg catgcatcta tgcggacact caaatgtcaa attnttatgg tcatgtgatg 180

ctagggccca ggattcattt cctctatttt atatcaacc aatgtttcca aaatatgttc 240  
 ttttatccat ttgtgcattc atccaagtcc atttcgggcg tccgggaaaa tttcacagca 300  
 ttcacccttc aggtttacac acattntttt tcccanaaac tagctatgaa ttagcgaatt 360  
 ttcttcanag aaaagttgga agtcatctct tttcaaaagc atgtttgggt ttcagctaga 420  
 caaactattt ttcttttttt tctccttttt tt 452

<210> 14872  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14872

caaaaaatgc ttgggagtat gtcattggatt gcctaggtag tctggttgat tgtccttctg 60  
 aacagcagtt cgctgagtgc cttcagaagt ntcaaaggc ttgttcacct tggctaattg 120  
 tcgttgacta tggttaacgaa acctagataa tcccacacaa gaaaaaattt attacagcct 180  
 gaatgaataa ggtgatgcac ttangcaaca caacaacaaa cgggtattaa aatgtttacaa 240  
 tntttctagt aatgggttatt aattcatgga atttaattgt agnatattnn taattttttt 300

<210> 14873  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14873

agctntgagc tctttttctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa ggaagagaag gataatttcc aatcaaagga caaaagagag 120  
 gatagganat tccaatcaa agagtgggag aaagcatata gatnagatag ataattccca 180  
 atcaaagaat gggagataga ttataaaaag agaaggagaa gaaggaaaga tagctcctgg 240  
 tcaaagatcg aaagaaaaca gatgatatat gcagagaggt cttttgacca gacaatatct 300  
 gaacaa 306

<210> 14874  
 <211> 382  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14874

tacccatcac atgtggtact aggtggctgt ctgtcgatgg tgcacaacaa gttttccaca 60  
tccacaatgc ggcataaac ccaccatccc ctgttgccca cctncaactg aactcacgta 120  
ctcccacgta gcccatatcc tegtttctct ccacccgggt ccccatcaat cctcccaagc 180  
ttncacaaca tccaatcaaa acaacattca aacagcacia gctatcacag ccaagcaaaa 240  
cagagcanag gcagaaaact ctgctcaaca catcaaccaa aatcacagct nttctctctt 300  
aggaccacaa gtacaattcc ttcgatccaa ttcgttaacc ggtggatcga ctccaaaatt 360  
ttactggaag tctatagtgc at 382

<210> 14875

<211> 239

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14875

ctaagattgg tataacatac gcaccaatta tagaataaat tttgagccaa aacaacaagc 60  
acacttnoct ttcacttttt attttctaga tactgatttt tctgccaaact tgtgtgaatt 120  
ttagtatttt ttccatgtat ctaaactcact tggttctttc tgtataactt gtttccagat 180  
gtctaataaa ttcagtaaac atttcagcta taaattcana gtaaccaatt cttagtaat 239

<210> 14876

<211> 278

<212> DNA

<213> Glycine max

<400> 14876

tatacgatat atgtcgacca actttgcaga ccttgtcttt accggagatt gaatctagtc 60  
cggactgatg aaaggcaagt ttgaatacgc ctacaacgct ggccccaaca gcaatagaag 120  
agccccagtg gtgggcacat ggaaaaagga aggggatacc cacgcggtca ccaactgcccc 180  
aacgtggatg ataacgcccc agaatgtcga ttactcatat caacacaacc acccgaactt 240  
ctcgatccga gccgggagtt cctcccaaac tcaagtag 278

<210> 14877  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14877

ctatttagtc ttctatgcca tgctcgatcc tgatgtgtgc gtacgactcg tattaactag 60  
 attaacatcc ttgctcatta ttactgatga tacgatgcga gctgatgatc tatcggacac 120  
 atctttggca ctcaattatg gatatgtact ataaggatta cagctgtgca cgttgtgacg 180  
 atgccgtgaa gtgctagatg gcttccctat gcgtgcatac aactaccgaa gctgccacta 240  
 atagttcggg gatctcatcc tttccgggct ttacgatgga cgactagcta tagggttagc 300  
 ggacgttccg tacgcattca ttccttggat tacactctac tgaacgacgt ttgcgtcttc 360  
 tgtctatggg tgcgtacgac actatgtata tccagtgtg aagggcacta tnttctcgca 420  
 gttatcccct atattctggt gt 442

<210> 14878  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 14878

ctgaatgcaa cagttcataa tcaacaactt taataatctc acttggatac tgagtttctg 60  
 atgcttctat atatactgaa gacatagctt tgtctctata tagcacaaga aaaaaatttc 120  
 ttcatcctat aaagagaaaa tgaaccact acaattagtt aattatctaa ctgagagcta 180  
 ctattatctt tagctgtgca ttaataattc attgcaagaa gtcgaatctt gaggtttatc 240  
 tggtgaaaaa gggaaaggac caattccctg 270

<210> 14879  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14879

agctttatct atgaattgat tatagcctta gtttactct gggtattagt caattcgatt 60

aagaaagaat atccccacaga acaatgtccg aatgattntt ttttattggt taatttaaata 120  
 atattntttt attattatat tattattttg cctctttctg gttttaaacg tggttatggc 180  
 atgacagatc ggtcggattt tattccaaca tagattaaat gatattacaa ctctcatgat 240  
 cgggtgaaat atattttatt gttgattacg cgagaaaatg acttaaataa atgactaacg 300  
 cacgtcaaaa ggggggtacgg aaag 324

<210> 14880  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14880

tgcttgtgga gcttctatgg aggatggatc tttgagcttc aatgatgtcc ttcaatggtg 60  
 attnttcacc atggagatgc agttgaaggc aaaggagaag aagagagggg aggcaccatc 120  
 cactagggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180  
 gcttgaagag gatgctttta tggaggaaaa gaaagagaga agcggngagc acganatcta 240  
 aggaataaaa gagggaaaga agtggaaact tgaagtgtat ctcataagac tttcattcat 300  
 canagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct tccttcagaa 360  
 gctttct 367

<210> 14881  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14881

agctnttatc tatccaagat catacaaaag tggtacaaca gaacctaacg gtttctaatt 60  
 atatgggcca tcaaatctat catgtgttga cggtaattga ttagcccggtg aatttcctcg 120  
 gnggttgtac acacttcagc gatggccttt gctttgacta gtagtcgcgg gaggtcttga 180  
 ctccattca aggtcaaggc gaacctatcc atccacatgg tcgcttcttg atgtaatgca 240  
 tcaatcacc tccctcttgc ttccttctcg gcgtacgctt gcacaaaatc ttctaactag 300  
 ctttgttcat ggggtcaaaga ctggttaact cttccttgta ctgccctatg atagct 356

<210> 14882  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14882

atataaatac taagcttcag accaaagcaa cacataatct aggtatccaa aactcctcta 60  
 tttaatggat tntcaagggt tgagaagtga aattgagaat ggggtaaatt tggagcaaac 120  
 tctcacctca cagcagtcta taacatcaat tgaaacttgt tcanattgga ttacaccta 180  
 aaatttcgcc gaacccaaaa ttgactcctc aacccccaat tntaccctag aaatggctct 240  
 ttattcactt tggatcatctg tttttctctc tagcacagcc caaactttct nctaagtcct 300  
 anatgaaatt tcaagctagg attaactcac ttttaacctc aaataccac 349

<210> 14883  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 14883

gaagctttca atttttctta ttcaatgcac ttccagccac tgcataagatt atacttgatt 60  
 tggaacactg acttaataag aagagttaac acgtaaacga ataatgttat gtcgtctaca 120  
 taataatggt aaggaatata ccttgtgttc acaacaaaaa aataccttgt gtaggacatt 180  
 atcatatata tgattttgtg tttctatgaa tttaaaatgg tcaattgctt ctgctatgag 240  
 taagcaatct gatatacact gtgtcaaagc caccctaga ccgtcaccta ttaactacta 300  
 atatctgcaa accttctgta catacatagt act 333

<210> 14884  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14884

aaaatnanac acttagaat gcgtcaatta ngtgtacaag ctcagggccc tataaatgaa 60  
 atacaaaatt gatttaaacy tattacaata tctacaataa ataaaagtct aacacctact 120

gatctctatt gatggcnctt aattaatttt taaatacaaa ttaacaactg aatcaattgt 180  
 cttataactc tagagaatat catgcgtaaa caatcctttt acaaacaatc ttgtatgcat 240  
 atacta 246

<210> 14885  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14885

agcttttagct tatctgttgc tgccccacaa agctccacgg aagttgtctc ggcagtgttc 60  
 ttccctacaa gccctcttgg tttctcattc caaggctttg gtggtagcca catttacatc 120  
 tctcagtttg gtattcttct ttcggattnt cagagctgct gatttggatc tttctttaac 180  
 tgtntgggct tgctcgagtt ccaccctaag ggctgcacc tcttcgtctt cctccggtgc 240  
 ctcaacttcc tctcttttag cggttctcaa acttggaagc caatcctaac ctttcacgtg 300  
 ggcttttaac cacttatg 318

<210> 14886  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14886

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60  
 acctggagat atgtcgcggt ggtcaggaga ccttgnggac gtcagggtggg gtgctattgc 120  
 caaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga gtccttgga gtcaacagat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tgagatatgg 300  
 cctctggtaa t 311

<210> 14887  
 <211> 113  
 <212> DNA  
 <213> Glycine max

<400> 14887

ccttgaatct tcttcatcaa tgatgttact tgcttcttga agatcaatga caacagaatg 60  
gagaatgagg aatggtgatc gaagacgtca cttcacatat aatatgagtc aag 113

<210> 14888

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14888

ntgaattcaa aaatatgagc cacaatggtg gtgagactag ctttaaatat gcgttctttg 60  
gaccaatctc tgttttntga atttatctta aaaaataccc atttggtttt aatgaaattg 120  
gtctggaata aaacagataa aattctaaac aaattctatg ttggatccct tgagagatga 180  
ggtcaaatta gttcctatgt gtgacatgca aggcgacttc actggtgtgc aaatagagtc 240  
tagtagtggt tagctntcct tgattgtgag tctctatggt ggtcaaattg aaatggtgtt 300  
tacaatttat taaactagag agaaatttt 329

<210> 14889

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14889

agcttctcct tccttttcct ataaataggg gtaggagggg agaacataaa tattcaaccc 60  
tcttggtatc tgagaatcac ttanaattag tgagaaanat tgttccatga agaanatcca 120  
agccgaggcg cttccgtaac gttccgaga cgtttccgtg ggtgatttcg cgaagaattc 180  
aaccgttctt cgccgttctt tgtttgttct tcgtcgttct tcggtcttca accggtaagt 240  
tccaaaatcg aactttcaat ccattctatg tacccttagt ggtcccccact tgtttcgcat 300  
gcttttatct tcatttcatt tactttccgt accccctttt gatgtgcttc agtcatttat 360  
ttaagtcatt ttct 374

<210> 14890

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14890

tgccccgaga aggaatccac ggaagaaatg cttaccacct ctttagactg ganagcggtt 60  
tctaataaat cctctgcggc ctccacatac ggcatanagg atgggcagct caccaagatg 120  
tcttcctcgc ctgatatgat gaccagatgc ccatccacta cgaatttcaa cttttggtgg 180  
agtgtagagg aaacaactcc cactgagtgg atccacggac gcccacacag acagctgtag 240  
gggggggttaa tgtccattat ttggaagtaa cttggcatgt gtgagggcct atctgtactg 300  
ggagatcgat ctctccccta acctct 326

<210> 14891

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14891

agcttaaact ttatggtaga caatttacag gttttttagt tgcatttatg tttagctnta 60  
gtgttttcaa ttntaggggt tacaatgtag tgttttagtta ggtcttagag cccaataggg 120  
gcaattcctg taagaggggt gaagaccctt catttctgct ggaaatcatg atgaacgcgc 180  
taagcgtgcc agctgcgctt agtcggttca tgcgaactat cannatttta gatttccaaa 240  
tgatcgact aagcccgacc atgtcgcgct aagcatgttc atccttctga tgagtttcaa 300  
tgaagagctc actaagcgca tctacgcgct aagcgagagt agtgtttcag acactt 356

<210> 14892

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14892

ctcaagctta tgcaccggaa atgtaattat gaaattgaga tgcccgaga ttcactattt 60  
cctagttaac catgcattag gtaccatggt caattatttt ttaaagtga acgggtttat 120  
gatcccaaca tggttggctc gtggtgccta acacatgaaa ctaagaatgt agtgtgaagt 180  
ttcacgcttc cccctttttt gtttttgttt tgtagaggaa aacgcaagga tgagcaaaca 240

tganaacaaa tggatatgca ttntgcagat caaaaagttt gttgaacgca tatgcatgat 300  
gatgccatga ctcatgcaaa atgtgaggct ggaatatgat aacggacaaa tgcangatat 360  
gtccattatg atgttatgaa gagatgctta tgcgatgcat gatatgaatg 410

<210> 14893  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14893

agcttcaccg tatgtcgccg atcgaacatt tcctaaccga cgtcatgcat atttcgttca 60  
gggattgaat tgaanactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
agccgacatt gcacaattct ttttagaaaa gctcgctggt cgataatggt ctttttacgg 180  
cagagtaagt tttcttgtn tgggtgtgca taaaaaagtt acaatgtact tcggctaggt 240  
tnttcgtgcg agttcaaccg acattntggt tcggccagga aaacattagc ccacctctgc 300  
anaaaaaata tttgctaacc gtcttcatgc atatttcatt caacgaatga atagaaaact 360  
caatagccga caac 374

<210> 14894  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14894

tcaccggatg acgccgatcg aacatttcct aaccgacgtc attcaaattn tcattcaggg 60  
attgaataaa aaactcgta ggcgacattt gtcgtgaagt agcaaatgat acttttcagc 120  
cgacattgca caattttttt tagaaaagct cgctgggtcga taatggtttt tttacggcag 180  
agtaagtttt cttggtttgg tgttgcataa aaaagttaca atgtacttcg gctaggtttt 240  
tcgtgcgagt tcaaccgaca ntttgtttcg gccaggaaaa cattagccca cctctgcaaa 300  
aaaaaaata 309

<210> 14895  
<211> 515



<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14895

aaccgcggaa gggctgngna ccgcttatch tatagaatan taagcttgaa ccttttaggt 60  
 gccttaatcc ttgggtggac acatgagtnt ttattaatat atgtntctcg aatggtnnga 120  
 aatggtnnga aatcaagccc cggccccaat aagtaaata cgcctaanaa caattttaag 180  
 aagactttat tttggatgtg ctagggccct tttttttact ctaaataaaa atactatagg 240  
 tagacttttt ttcaaataca tgtgaacttt ttttgtcaac atgtgtcacc ttttttgttt 300  
 tataaaaagt aatagcacat aatattatgt tagtgggcct aaagcttgaa ctctntagtt 360  
 gtttactctt ggggcacccat cagtttatta tatagttctc caaataactct gtcagataaa 420  
 agatgtagaa cataaaattt tgtggtgctt tcacaaatgc agatcanaat tattttgaaa 480  
 acanttacat attgctaate catgataata aaatn 515

<210> 14896  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14896

agcttgacca ttcccttacc aacccgggca tagtcgggtca gtgagaacct gtgatgtacc 60  
 taaacaggcg agcctctctg agtcaacaga ttaaaggaaa acaagaccac anagccagga 120  
 ggcttggtgt ggctggccag ctgtgaattt tgtgtaatat gtggatgggt gcctctggta 180  
 atcgattacc aaggggtgggt aatcgattac aaggcttaaa atngaggaca ggaggctaag 240  
 atgggtctctg gtaatcgatt accaaggggt gtaatcgatt accaggcttg aaaacgaagt 300  
 caggaaactt atggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360  
 gaatgggtca ctggtaatcg attaccagga atgtgtaatc gatacacagt gtattattgc 420  
 atatttcattg 430

<210> 14897  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14897

gtaaaactaa gctaaaaagt cttagatggg agtgggacca gnccatacat tcgttacctg 60  
caatgaacaa cgaagcactc gagaaattca aatttcataa cttttcacac ggaagtccgt 120  
ttcatgcgca taatatatct tgaccctcga aattggtcac cggaagctc tcgagaaatt 180  
caagtggta taacttttct tacggaagtg cgattcaggc gccatatata tctangtgct 240  
agaaatngat caccggaagc tctcgagaaa atcanatgga cataactttt caatcgcatg 300  
gtctgattca ggtgtagaat atatcgagac gcactanatt gaacaatgaa agctctcaa 359

<210> 14898  
<211> 151  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14898

acctttcatt ctttaacatg tttacatata aaacacgctc anaagtcaca ctgactatca 60  
aaagggaaat aagaagtgcc aattaactct gtttgagata ccacactgac tagtgatgtg 120  
gccaaatggg tnggtattag tataatacac t 151

<210> 14899  
<211> 183  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14899

tactcaagct ntttgagta gaaacatggg accaactcat tntatttcan aatatgaagt 60  
cgtatctagt caaggtctga gagaccatac aagtttctta acgatttcta attatgtggg 120  
ccattaagtc tatcatatgc tgacaatagc cgagaagccc gtgaatctct tcgggggcgg 180  
agt 183

<210> 14900  
<211> 293  
<212> DNA  
<213> Glycine max



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14903

tgttgaaccc tataacaaga aattccaaga gttgaaactc ctatcaactc anagcccttt 60  
ggtaacccta accaagatta aaacctacaa agaaatcaga attggataga atacaccttt 120  
agtatgcaga ttacaacttc ttcaagctnt atcaattatc aaaccatgat gcagattgca 180  
agatcttttc tatgttgata atcatcatca ctcttggaat atcctcatga tatcttcctc 240  
tcaataagtc acgaaattgg aaaacaattt ggaagcttag agactcgttg canagaaagc 300  
tatttataaa gaatctacta tataacatat aatcgattac gaccattntt ataattagta 360  
aattcctaan agtagatatg gatttctatc taagatcaat gtaatcgatt acatata 417

<210> 14904  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14904

agctttctat ctgccccacc aacttcgcca ccaaagaaga ctctcttttg tacaattgga 60  
ggaagaccat tattacctcc atagttatca acttctataa gccagaagtt gtgatccggg 120  
tttttcaact ntactcggcc ctgagaacaa agtgaccaa caatgaaaga taaggaatac 180  
attcttgcaa tagtatccgt tcaataaatg acaagaaatt tcattcattg taacacatct 240  
gacttcataa gctaaaaaat aaaacgactc tggcaagcct gaatganaac aaatggggaa 300  
gacaaggggc ccatatgaaa naagtaaaac gatactcaat gaatta 346

<210> 14905  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14905

tctccctttg agtntcttca ttaactcctc tattgttatt tgcttcctc tctcttttaa 60  
tctgagtcac ctctatgtca tactgagtgt acacagagac aaactctcca attgccatgc 120

tacaagcccc agcaactaat cctgcaaaac cagcaagaag catggcactg atgtctntct 180  
 taacagctcc aacacccatc atcagtgaag caacagaaac caacccatca ttagctccta 240  
 aactgcagc tcgaagccac tgggcccttt gagagtaatc aataatgcta ctactct 297

<210> 14906  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14906

agcttgtaac tcttggaat ttctttaaaa ctagtcactt aaaaagttat gacttttgaa 60  
 agaatcttca caaacaagtc acttgaagaa ttgtgacttt tggaaatgta tttttcagaa 120  
 tcagtcactg gtaatcgatt accattaagg tgtaatcgat tacacatcaa cagatgtgac 180  
 ttcatTTTTga atgttgaaaa tcttaacatt ntaaaacact ggtaatcgat tacatgatta 240  
 tggtaactga ttacagctct gtgaatcagt ttgaaaaaaa tgctggctac tggtaatcga 300  
 ttactacctt ctggtaatcg attaccagag agtataacac ttt 343

<210> 14907  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14907

atatatgtgt gtgtcagact tcanaaagta tgagagagat attctaagag aacttcattg 60  
 tcanatgctc tctcaataac tcttgggcaa atacttgcaa atctattgag agttcatcta 120  
 ngaaaatcaa attgtatatc cactctaaag gagagaaatc tctctattca tctcagaaag 180  
 taagttgtaa tcaagagact ggtngtctct tgaatngtga gtttcat 227

<210> 14908  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 14908

agcttctaata tcttggttga tagaagatcg aaatttggtg ttacttaagc tgatgggtgt 60

tccagatctc tcttcctagc aatattcctc gatttcacca agatccctga gttgtcttca 120  
 aaatatcgat ttgaagcttc caaatcttca gaatgtcaga acttacttgc tgtgcttgcc 180  
 attaatcttct taaaacgtca gaactgttac tgttgcacct atgcacattg ttggacaaac 240  
 aacctatatt gtgctcaccc ctaaatagaa gggagtgttg aaagccccac atgacgggtt 300  
 gccatgggca aaaagggaca tgtcgaagtc ccatatcgac taaagataat gctgaaataa 360  
 actatataag tggaaacaat cctcacctac agccggtttt gtggattgat tggctcaaac 420  
 c 421

<210> 14909  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14909

tgacaagata ctagaagaa cacttttaca ttcatatctc atgtgtttta tgtntacatt 60  
 tatgtaaaaa cttactataa tttactggag gcttgattct actgctcaat tttcacacaa 120  
 gaatattctt tgtaataat gaaaacatct actgtcatct ttaatttatt tttattcata 180  
 acgtttactt acttaaattt aataatttat aagatactct aactggaagt tagttgcaat 240  
 ntatgggttaa ttntacttag tgttgagtnt atctttatca ttaattgtta tttcaacaat 300  
 gacttgtaat tctcccta atagtttagt aagcaattcc atttccatgt aaaactc 357

<210> 14910  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14910

agcttgtntt cttttccctt catctcttcg gtgtggcaag cttgttttct tttgtgttag 60  
 gaagtctcac atcgtctgcc tcagtctttg tgggtgccagt tatatatctg ttggaccaac 120  
 ttcacttaat gccaatgat ttaagatgaa atctaactg atatcagagc ttatagtccg 180  
 tcttagtttt ctctaccatg tnggttgaaa aagcagcagt acctgagatt ntcattcagt 240  
 tgtttgtctc ttagaagagc acctacatac tactaatctc attaacagtt aatc 294

<210> 14911  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14911

tataacttata ttatatattat gtgtatgtac actaagttgt agttaacatt taatatctaa 60  
 attntattat gtatttagtg taatagacaa aaaggaagca cttagtgtga ctattacgtg 120  
 atgcactgga tgtccactat aatcttanga acttttatga ataattggga aacgttaatt 180  
 atttatttca aacaacattg attctgttat aattgggtatt acattattaa cttatgttgt 240  
 attttatcat gccagatttt aatgatgtt 269

<210> 14912  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14912

tgcttgagtg taacaatgac tgtgaggttt tggttgatga tccttccatg atttcaatca 60  
 tgcttactag cttatttcag ctatgactct aatgtgtatg ctctatctt tgaaaagctg 120  
 catgcttggtg agaagtgatt gatttaagca ttccatgata ttcagttcat atggttgaat 180  
 tcctttatga atcagacacc attttctttt gattgaccac tgtctttgtc acttgatgac 240  
 aagtgaactg ttctttcttt gcttcaggac aagcaaaact gtaaanttgg gggagtntgt 300  
 tagtcgcctt atacgactaa catttgtat 329

<210> 14913  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14913

tctgagaacc gctaaaaggg aggatgttga ggcaccgaag gaagacgaag aggtgtaggc 60  
 tcttangaca aaactcgagc aagctcaaac agttaaaga aagggtcaaa tcagcagctc 120  
 tgaaaatccg annagagaat accgaactga gagatgtana tgtgactacc accaaagcct 180

tggaatgaga aaccaagagg gctcgtaggg aagacatggc tggaacangt tccgaggggc 240  
tctgtggggc agtaacagcg agcttaagct ctggaaggag gaaagggacc aatcgcgaga 300  
agaccatttg atcttg 316

<210> 14914  
<211> 373  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14914

cccgggatcc ttaagtcacc tgcggcatgc aagcttaggg tttcttgctg tgatttgcca 60  
ccaacaaatg ccccttgacc ttgcaaaatt tcttgaagct atgcaagtaa gtgctcctaa 120  
ttcctctttc cataacccta nactctttnn tcaatttatt atcggttctt cattccttat 180  
tnatattcga taantttttg ggtgcttctg aaacaacaac ccttattgct caacgaatgt 240  
gtggtttggg aagcaatatt tggtagcatt ttaagcgtt aaggtcactg aaatgtgtcg 300  
tttaagaatt agaaaataag agaggatagg gtgggttttct tattgttatg ttacatttat 360  
gtgatggggtc tca 373

<210> 14915  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14915

gcttgccgan tagttttcgc cgggaaagga ttgaagtggg tttgagaata ggcttatttg 60  
attatcctgc tttgatgaat aggaagccta aggcaaatgg agagaataag aaggagagaa 120  
gaacccatgc tgtgtctacc attcctacat ggccaaattt cccacctgct caacaatatc 180  
aatacttagc caatatcagc ccttctcatt acctaccacc ctattagtta agaacaccca 240  
atcatccaca aaggccaccc ctatatcagc cacaaaacct gcctactgca tattcgatac 300  
caaacaccac ccttaacac 319

<210> 14916  
<211> 368



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14916

tctcgacccg ggatccttaa gtcacctgcn gcatgcaagc ctgtattaat tttgataatc 60  
aagaacaact tgtcgcacat cttcgggtgtc gatatccctc gacaagggtg agtagagaga 120  
ccttcacccct atacgcaacg ggcggacaaa tgggcagtac ttgatggcct tatgtcaatg 180  
gaaggtttct gccttactat catgtccaca tattgcactg tggatatgtga catgactata 240  
catatataga tgtgttacac catgacacat ttaaagctac tccccagtg ggcctttgga 300  
tgaacggcat tctctttgag agcatgacac taatctgacc actacattct gcaaagtcgg 360  
caaatacac 368

<210> 14917  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 14917

tgaagagaga tccttgttct agtttaattg attaccaatt atctcgtatt cgattacata 60  
gtttagtgtga gaccatgtgt ttccatgagt ctctatttta atccattatc aggtgatcgt 120  
aatcgattac tatgttcttg aaagtattcc aaggagtgat caagaacact ttaatcaatt 180  
aatcaagaa tctaattgat tatattatcc ttgaaagctt tctagatttt gggaagaaca 240  
ctttaatcga ttaaaatggg aatctaattg attacttctt cgagaaatcg attaccttgg 300  
caatctaatac gattacaagc agttataatt gtttttataa atagcacctt 350

<210> 14918  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14918

agcaacgata tgcatttact tattacacan ggccacaggc gcacaagtgt actgaccacc 60  
cactgactat tcgcttggtt tgtgggtcac ttctctgcac caattatggt catgcttaaa 120  
tgtctctatc tgaaaagagt gtctaacttc attctttgca tagtaaataat cccaatcaca 180

taatgcgctt ctagcatttt gctctaaccc tctgtttatc attcttcttc cactagaact 240  
 cccgtcccggt caatatgcta tactccctta tgcgagatct aaattcatct agagtatcaa 300  
 ctccatccta attccaactt ctgtcaccaa ctcaactctt gacatattga gataacttaa 360  
 catcctctat tatc 374

<210> 14919  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14919

catctacctc ttgaagaggc agaggtaagg gcatattgat atgtggttta tgtanacgac 60  
 ggngagatca gacactatta taaaatacac tttcaacatc ggttatttgg ggccttctac 120  
 atcggtagta aaaccgatgt tgaaagcatc catgatgaat gtattgttgt taacatcggn 180  
 tttaaaaact gatgtcaaca taaagaaata acatcagttt tataaataaa cgatgggtctg 240  
 aagaaagaac tacagcaaaa taagtgtatg cgtgacggac gttggcatct gttttctgta 300  
 aaggcccatg tgaatatgtt atatt 325

<210> 14920  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14920

agcttctcct tctttctcta taaatagggg gaggagggaa gaacaaaaac gttcaaccct 60  
 ctcggtatct gaggatcact tanaattagt gagaaaaatt gtttccgtga agaatatcca 120  
 agccgaggcg cttccgtaac gttccgata catatccgtg ggtgatttcg cgaagattnt 180  
 ccaccgttct tcgtttgttc ttcgtcgttc ttcggtcttc aactagtaag ttcccgaat 240  
 caaacttttc aattcattct ctgtaccctt ggtgggtccc actatttttc cggactttta 300  
 ttttcatttc atttactttt tggacgcctt tttgactagc tttaatcatt tatttaagtc 360  
 atcttctcgc cttatcagac ataaaataat attccactga tcattcgtat tg 412

<210> 14921  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14921

aaccggtgag agtgtgatct taaactgtga gtgatcgacc tgctntgact aatagtctnt 60  
 gcatcaatct ctgaatttta gaatgaaatg tatgaatgag gacatgatga aggccatgat 120  
 tgtatagaca aaccaattga ccaaaaagct taccttgaat tataattgta tcctttgcac 180  
 cctttgtgag ctaaattaca ttttcaaaat tgaaccctga acttgaatga atatctccag 240  
 ataccttggt tagattctag gagagcagat agttc 275

<210> 14922  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14922

agcttgagct ttattttacc attgatgcca actataatgt gatggtagtg gtcaatgagc 60  
 ttaactaatg gaaaactgag atacagtagt gctacttca tcctcctacc ctggcacttc 120  
 ccaccttgaa tctaagcaaa aagaaaagaa attcgcatta cctctgatag ttttgaaaat 180  
 ttagtcaaga agcatgatat tacagtctct ntcaactggg tgatcatcaa ttgtactgct 240  
 gacattatct tcatagctga aacatcatct tcttgagatc cataaattat gttctctgat 300  
 tctctagaaa cagcctgcag cctgacatca tcaatcaact caagaaaagg atctacctgt 360  
 ggatttacia cactaattaa tttaactgat catta 395

<210> 14923  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 14923

ctgagctggc cttagttgat cccaagcggg ctaagagggt tgtctatatt tcacaaaata 60  
 aatagtgccg gttaatattg ttgtaattct aaataggtag atcaaaatgg attcaattgc 120  
 caatgtctta tgtttgagtc ttgtggatgg aaaaaacata gttggagggg agaacccac 180

taaatgtggc cagccagttt ctccaatgaa gattagtaat cggcaaaacc gttagatact 240  
ccataccaat aacgtgattt gattaaaaaa atggattcaa ttttcttaaa aa 292

<210> 14924  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14924

agcttttcat gatgtgagct naacaccnac aagggcgcgg gtactaagct ctagctattc 60  
accgaagatn tcgcanagaa gcttctcaag atagtcttct catgaaagct tatcaaggaa 120  
gctatctagt ctatacatag aagcatgcat aacacttggt gtaactgtga tgaatgatag 180  
tcttacgaga tacactncag agtgccactt ctctgctctt tttattcctt caactttgtg 240  
ctccctc 247

<210> 14925  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14925

tactcaagct aatcatgtga gtgtcgtagg acatctccca attcaattta atttctctcc 60  
caacacacat canatagtgc actgaatgca tgtgaaatta taaaactacc cctaatacaa 120  
aactacccca naaataatga aaccctaata taatatgtac aaagataagt gggctcatal 180  
ttagcccatg ggccaaaatt ctaccctaata gccttcttca gcagctctag cccaatattc 240  
ttggagtctt ctatacaata cccttggagg gaggattaca tcatatgtgg atattattct 300  
tgatagttta atatgccaat gatggacaaa gtct 334

<210> 14926  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14926

agctttgtac tttcgttcaa ccaaaataaa aactataaac tgaaatttaa aagctgaaat 60  
 agaaacataa atctaaagac tgaagcataa acataaatct aaattataaa atgtactaaa 120  
 gacatgataa taataaaact tttcaaaaca cagggaaata aaaatcatga tcctgtcaat 180  
 gatcctgcat agagtccatg gcatgctcat tcaaatccag tgcaagagtg cctgatgatg 240  
 aatcctaagg aaggggcang tctaactg gtgcagatga ctgangctga gaagaagaca 300  
 tgtccagcac tacagtggaa ggctctggtg tcacaggtgg ggtagttgct actggatcaa 360  
 tctcanaaat g 371

<210> 14927  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14927

tgtaatcgat tacacacata ctgtaatcga ttaccagagc atattttcag aanatattct 60  
 caacagtcac atctttntat gtggttcttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacat gaatttgaca agagtttttn tgaacaaaaa ggtcttatcc tcttaaaaag 180  
 aanaatcggt ttatctctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300  
 ttcttcattc tg 312

<210> 14928  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14928

agctttgact atatattgct gctgggaagg gtctgatctg tgaattgaat gggatgatgaa 60  
 cacatggtat gagaggatga ggaggcaaga tttgagagcc tgagttcaag aactgatgaa 120  
 tgtggttgaa ctgtcttgga tcacgggtcca ctganggtgc aatatatgga gcatatgtgg 180  
 tgaacattga tgggtgtagca gaagatgagc cacacaataa ttgagagccc gatgaatgta 240  
 atgactaaca agattggatt tgcacaccat tgttgccact gcttggatta ggatctactt 300

<210> 14929  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14929

ctctccccta acaaatgaac caacttcttt aagatanntt atctacatcc acagcaagat 60  
 gctcgaaaac ctcatacatg tcaagtaacc gaaaacattt ttctgggtgtg tgtgttccca 120  
 ttgccacggc ctcaccataa ttcaagagat gcagcatgaa actctgagaa atttcagata 180  
 agcagcattg ataaaaggat ccaaaatcac caaggatttg ctcacacaat cgtttctcac 240  
 tgacgaggta caccgaaca atgatcttca tggctcgaat ccatttcttt atctcgttgt 300  
 tcaagcaatg ccactccagt tttatcacat ctttcattct taacttt 347

<210> 14930  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14930

agcttgtgat taccatgat attatnatng gccatggaaa cacaactggt tgccatcatc 60  
 gagagattct ctacaaactc ttgttccaaa cgaacgaagt taaagatagt cttttcttta 120  
 tgtgtaatta ataacaaata tattgatcga accggtccaa aagttggata ggtagctgca 180  
 tacacgtatt actcttaca ttaactagag gcatggattt aacgtgccaa aaacaaatca 240  
 cgcggcagat aagtgggccc ccactaaagg aatcttgaga catctttaag ggtattgcta 300  
 ngggcaccca gcaacattgc aggtacaccc agctatcttt cagatacctc caaatacccc 360  
 tcaacgtatt tttgtacaa aagctgggtg attattttt 399

<210> 14931  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14931

nttgcaagct ggaatcattt atcctatctc cgacagccaa tgggtgagtc ccgtccaggt 60

agtgccgaag aaaaccggcc tcaccgtgat aaaaaatgag aaggaggagt tgattcctac 120  
 tcgggtgcag aacagttgga gagtctgcat cgactatatg aggetgaacc aggttaccaa 180  
 aaaggacat tttccctgc cattcattga ccagatgctt gaacgcctgg caggtaaatac 240  
 tcactactgt ttccttaatg gtttntctgg ttatattaaa tcactattgc tcttgaggat 300  
 cangaanaaa ccatattc 318

<210> 14932  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14932

agctttttgt ctctgtttg ttnggaactt gcttaactct tgattccttg gcatcatcaa 60  
 aataatcttg gaagtcattg cttccacatc taagtctatt ctatacatgc cttgaaatgt 120  
 catgtatgtc tgtcatttgt aacatataag agaaagaaaa acatgataaa aatgacagaa 180  
 aatgaacgaa aaaagagtac cttttgttga tattgcacct ccaattgcac atccactcaa 240  
 caaagcaacc atttattttc ttccccaatc ctttntatta attttctgat tagaaaacaa 300  
 actaaggaac tatagtagaa caaagcctag ataataataa nntatcatat aataatgaaa 360  
 caaaaccaan ataattccca aggtgtcttc cctaactcctt atgatttttt tctaa 415

<210> 14933  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14933

tactatgctt ctgttgaacc tcctccttac taatgaacca tgaagcttat gattatgatg 60  
 ctcataaata gcacatacct taagtccctca tgaacattcc ctacctcaaa cctctccatc 120  
 acctccctag ctactccctc agcattggcc acaccctccc ctacaataac tgtgtttttc 180  
 ctctcacca actcactcag cacactagtt acatcattat tgtaaacatg gtctanatta 240  
 agcttcgtga aggagccagc agcaacttga ccaaaaggtc cagatgatgg agacacatta 300  
 ttactaccac caagaacaac atgatggggc gtggtgatat 340

<210> 14934  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14934

tagangaccc caacatatgc aggcgtgcat gtgcttgaag acgcatcatc gcgaatcgag 60  
 ccgaggctgt tgagcaagca atcaatcggg cttatcacac caaacgaata tgatgatgag 120  
 atggtcaaat tctcacactt gtagactcat gacttataaa taagcctatc ttaactatca 180  
 tgacttgtaa aagatagtca gagattgtag gtcgcaacat gtgtcaactc acatattcat 240  
 aacaactacc cgactcttga acatatcttg taactcagag aaatacatgc aaagtcgtca 300  
 tgctcacaag attgaccctt agtattaaac ttcgaatccg actaaactga caacatgtaa 360  
 cgttagcact gctttctgca tatctaatacc cacggaacta gctacaccaa gagacctccc 420  
 cacg 424

<210> 14935  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14935

naagccgcgt gttctgatac cctcggcann nacgnganan tatnnaatac tcaagcttgc 60  
 ttgacgagct actatggagg cgggatcttt gtatcttatt tangacctn aangganatt 120  
 ctccaccatg gagatgcaac ggaagacgaa ggacaacatg tgtaatgagg cgccgtccac 180  
 ttgagaataa tccgtggagg aatgagcttc accaccatga tcagcgttgg ataagaagct 240  
 cgctgaggat gctctgctgg ccagacnaa acacggaaaa aaatacagag gtgggagcac 300  
 gatctctata gacgaaacac gggaagaaga agactattgg tcgggttctc agactttctt 360  
 catcgagtac acaagtgtac acatttcctt ttttatctag accctccttg aaaccttctt 420  
 aaatacttct tgtaagcttt tcaaaattct ttttaatacag cttttcgcca cctttgtaat 480  
 tac 483



<210> 14936  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14936

ttgctatgct tggataatga atcatgaagc tgagatgccg gacgaatcac catatgctaa 60  
 ttaaccatgc attatgtacc atgtacaatt atntcgtgtg taagtgaat gggatatatga 120  
 tcccgacatg gttggctcgt ggtgcctaac acatgaaact aagactgtaa tgtgaagttt 180  
 cagcgtacca ctttctttgt tcttgttgtg tctaggataa cgacaagatg atcatacatg 240  
 acatcgaatg gtatgcagtt gtgcacatca taaagtatgt tgaacgcata tgcgatgatga 300  
 tgccatgact catgcgatat gtgacgctga aatatgataa cggacaaatg catgatgtgt 360  
 ccattatgat agtatgatga gatactgatg cgatgcatga tat 403

<210> 14937  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 14937

tatgctgcag acatttataa catacctcct caacctctgc agtttaatca accacagcag 60  
 aacaattatg acctctccag caacagatac aatcccggat ggaggaatca cctaattctc 120  
 atatggtcta cccctcaaca acaacaacag cagcctgctc cttcctttca aaatgatgct 180  
 ggccctaagca agccatacat tcctgcacca atccaacaac agcaacagac cca 233

<210> 14938  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14938

agcttgcttc tatcttaggg agaagagaga cacanaaaga attcaggcga ttaatccctt 60  
 gtgaattctt tttggccaag ggaaaagaga atggaaaaga tgaattacac aagtttttta 120  
 tcaaagaact tttcttgga gagaaagtgt tgaccaaac ttttagatag atgaagagaa 180  
 atgaatcaga aattctgtag aaagagttga aagagatnga aagagataat ggattganac 240

tcatgtcatg gtcacatatn tataatctct tgatgactca aagtcaaagc tggtaactct 300  
 tggcantnta tntaaaaact aatcacttat aaagttatga ctttngaaaa aatcttcaga 360  
 aacaagtcac ttgaagaatt tgactntnga aatgggtattt tgaaatagtc agtgggtatcg 420  
 atacaat 427

<210> 14939  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14939

tctgcatagc tgtatatgac ataacaatct ctaatggctt atctcatctt tccttcgata 60  
 tctggaaagt gtgcgagtgt tgtgcaaaga acaaaggana gggattcaag agatggcaaa 120  
 tagattgttg gcacaaaact atggagttgt gtgcaatttg aagcactaag agaaacaagg 180  
 ttagcgagat gtccaactga tttatgaatg ctaaccaggt tctcgcatcc atcaagtatc 240  
 aattntctta aattcatggc tctagacaca tcaggaaatt cagaaacctt atcacaaccg 300  
 gagatattca tgtaagtcaa atgggtcaaac tgcaaaacat acataaanatc agataatcaa 360  
 ttaacaacag tacatcaaaa tcatgtcaat ta 392

<210> 14940  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14940

ggatgcaact gtgatcttat acccatatca gctagatctt gacgggtatc aagccatcct 60  
 tcgtcttgcc ttgaatgtta aagagcgtcc caatcacact gtcancaaac attttctcca 120  
 catgcataac atcaatacaa tgtctaacgt caagatcaca ccagtacgga agatantaga 180  
 aatggacctc ttcttcatat gcaactctga ctttatcctt cttttgggct tcccaataca 240  
 ctgttcaggt gtgaaccac tgatatacct gctcaccagt caac 284

<210> 14941  
 <211> 386

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14941

agacatcaac cccaactctt gtgcatcagt gcagattcac ttatttatta gttgggttca 60  
tccttggtcc tgtcactaaa ggatcgaaaa cttaccattc tgttgagggg tctctctgat 120  
agtaacttgt cgatgtcttc gatgctacg tgtccaanag aacgagggga gaggataccc 180  
ataaaaggca cttcgacgct caagtaagggt tttggctcaa agctatcaag gatgtcaagt 240  
gaatattcaa gtaaaaaaca atccttttna cctgggagct ctttggtcgc tggtaacga 300  
tgctaattgg caagtgcacc gagtcgcaca agtaataaa aacgatcaga accgagtatc 360  
gaatccacaa gggacttggt tcactc 386

<210> 14942  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14942

agctntgcct ttatttctnn gtttctcate ancttcttcc gaagctntaa cctcattgtc 60  
tctcacagtc tttagacttg ngagccaate caatccttgt gtcccgactc tcagccactt 120  
atgatagccg ccgatgatcc cattaactgt tcccctaagc tctctgtcct ttcttcacgc 180  
cgcatcccat gccttgagaa ctccctggag taccctcgcg ttgtgggtcac tgaaaccccg 240  
tgcatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcatggngt agccaagctg 300  
tcttatggcg aggactggat tataattaat acaaccctt gttcccatca agggatcatt 360  
tggacatccc tcgcatgaag atagaatcct gattcttc 398

<210> 14943  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14943

aagcttgaag ctacaggaaa acttgaagaa gttatgaaga agnnntgtct nctacattcc 60

taactcctta gagtgacgta tgtattgggtt gttatcttga tcaatgcac ttactacatt 120  
 tgacatctgc tttgtatcat gcattatcat ggatagtatg aagaaaagaa ttctaattag 180  
 aaaaatttct tcaaagctaa aaactctctg ttttaatttat tagagttgcc gtaattgatt 240  
 acaacaagct atatgaagct tatgaaggta agctcgtatc atcttaattg attacaatag 300  
 tattttaatc gattacagtg ttat 324

<210> 14944  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14944

agctngctat cttttatnnt tcatacagtg gaccttcttc tagtaattat gacttaccgc 60  
 agccgcctat ccctcttcca tttccaccta gagcaattcc aatacaaaaa tatggaagaa 120  
 gcggaaaaag agatcttggg gaccttcagg aaagtagagg tgaacatacc tctgctagat 180  
 gccattaagc agattccaag atatgtcaag taggagttgt gcaccacaaa aaggaagcct 240  
 cagggaaatg aaaggattag tatgggcaga aatgtgtcag cattgatagg taaatctgct 300  
 cctcacattc ctgngaaatg taaggaccca ggtactttnt gtataccttg cattattgga 360  
 aacagtaaa 369

<210> 14945  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 14945

tcttccacgc caatagggtc catctcagca agtaaggcca tattgacttt atcaccatca 60  
 gctgtaatcg aggaatctgg gaatatctca tagtcatcca gccttgcagg ggcttgtcta 120  
 tttctctgag gtctcgttga tactgcatca tcatgaacaa cattgtcttc tgttcctaca 180  
 tccgtgttta gacettcaat tctggttctc aattcagatg tgcctactt atcactccaa 240  
 ttccaggatt gaccctcatc aaacttcaaa tctctactca acactagttt ctgagtttga 300  
 ggattaaaaa ccctgtatgc accagtagaa tggtaaccca gaaatatgaa gttctcactc 360  
 ttgtcatccc aatttctctt tattgcgtct ggaatatgct tat 403

<210> 14946  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14946

agcttcgcac tagtcttggg ttgtccatac attaaccaaa tgtgtgtcaa tatcttccta 60  
 gacacagaat tcaccaacaa catactctag tgccctcggtt gcattttgta tcattatacc 120  
 attgtggtgc anaataagag tgatntcatc acaaatccta taggtaaaca caaacatcat 180  
 tatttgtatt ttcacaaacc ttgtttatac acaacatcag taatgaaaaa gtataaatac 240  
 aactttgaga acccaaatat aaacctccaa atgaaacatc attcaaaaaa aaggaacaag 300  
 aagccaaatg ataaatgagc aaacaatgca caaaaggaaa tga 343

<210> 14947  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14947

tggttgcttgg tgtgagggaa ccatantctt ttgttttctc tctgnctttt acaataagta 60  
 tgtggtcaag atacaccact tgagtcatga aaccggttc agtgagagaca ataattgagg 120  
 ttccaagggt gttagacatc atggttgcac ggtangcaaa catctcactc atgtggttct 180  
 tcaacacttg accaatgtta ggtggcattt taccacttgg tatagtggct tttgtttgca 240  
 atgctactat gtgccttact tgcacaactt ttagtgggaa cttttcatta agctgttctc 300  
 tagacaacat tattccgtta gaaccttctt gaacaacaat tacctaaatt gataacctta 360  
 ttctgggttag agtcgggtga acaatcatgt tgtct 395

<210> 14948  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14948

agcttttttt taattgcttg tcttccataa gcagagtcag tagtgcactc tcacccatct 60  
ccattacaag cctttcttct tcctgaacac acatgggtcat taattcattg atagaccatt 120  
tatctttatg tgtgttgtag gaaatcttaa atggcccata ttcattgcgga aggggtgttca 180  
aaatgaaatg cactatgaag gactcagaca tatcaacctc tagtttctta agttgagctg 240  
aaatatctcg cattttcatg atgtactcac gcacaccttt cactctgggtg agccgaagag 300  
agaaaacttc atgatcaagg tgctngctaa agtcttatct gaagtgatga actgggtcatc 360  
aatggcctta agcaagtctc ggaccttttc atgctgggtca acagaacca 409

<210> 14949  
<211> 609  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14949

aaaataccgg ccagggtgac ganngtagtg ancgtctcan anatnnnang actnangccc 60  
tagactgtac tactacaaac ncgaagtggg atataccgc ccatagtcct atttacttct 120  
gaggaagtcc gtcaaggcnc tcgtttctcg ctgattcang gtccaacncc atannnatca 180  
ttntaacac agcagaacta tacgctatg anngctatgc aatacnaca caactaccct 240  
caattatttn tcaaaaatat tcaaattaat tnttcaaaaa tatgggtttt aacctcactt 300  
gggcactntc taagtgaac ttaaacctct gctctgggtt tggcaccana tgggagcncc 360  
antnncacaa aatntcattc tgcacaatga taccctcgtt caccctttt aaggggtct 420  
taatagttgg tgtgaatggc nnatagttca taagcctcac cagttcattc gcataacttc 480  
acttattccc catatatcat attatacatt cataacaatg ttaccagac acaaccacta 540  
cacanatcat accacanata tatatatata tatatatata tgtatatata acgcattata 600  
catatattg 609

<210> 14950  
<211> 346  
<212> DNA  
<213> Glycine max  
<400> 14950

ccgggatcct taagtcgacc tgggctgcgc tttcatatgt gtctacagga gacttggtgt 60

gcgacctctg gaattcacag gactgttatc ttgatttggc tgctcaccaa ggcaatgtga 120  
 ttgatgacct ttgaaacgaa ctcaccaagg acggttgttg ctttgotatt gtggttgggg 180  
 tgttgacaag tacgagtgtc tgccctacct gtcaaaactt tataccttga ctttgattga 240  
 tccattgtgg gatatggcta aggaaccgtt ttgatattgg tgtttcagtg aactttctac 300  
 ttttattgaa ttcttgaata ccttgcttgt cattagttaa tatcat 346

<210> 14951  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14951

ttgtactcaa agactgccat agctgacttt accttctatt tttatggngc ataaatatta 60  
 accacaagcg agagtgaata ttgaagaaat caacatgact aagcataatc acaagctccc 120  
 acaaatgcaa gagtgaatat agaagaaagt cagcaagtaa tttgagtata agagtcccaa 180  
 ctagatagag ggaagaaaat ggatgcagga cagaatcaaa tatattattt ataatgtcat 240  
 ttagcctttt ttttatttaa tttgctaaac actaaattat gctaccatac tattttcaga 300  
 ttccattagg agcgatctta gccatt 326

<210> 14952  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14952

agctttttat ttatttacct gcgctaagcg caaggggtggc gctaagcgca acgtcgcgaa 60  
 ttcagagcct acttatagcc tgtcttgtgc aaaattaggg tacactttga cacacanctt 120  
 tacagactnt tagacaaatt gtaggcagaa gatagggcat agattctaga gcacaccaca 180  
 atgcctatta tgggaaaaaa gccctagaag catcaagagg agcaacttgt gcattgaaac 240  
 ctaggttttg taagattatt attgtttggg tttctttgta atggctagct aagcacccta 300  
 gttggggatg tctaataaac atctgatgta aataccta atctaattga ttatgttttc 360  
 tgtgttcaat gcttccctca attcttaatg gttgtatgct tttggctctga tcatccattc 420

gt

422

<210> 14953  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14953

tgccaccag ctcgccaag cgagctagg tgcctcctcc agtagctctcc gccttctaga 60  
ggaattttcg ggaagccca agtgggcctg gttgctatct gcacccctna tttactaag 120  
tacacccttc gccttttttg gtgattcttt ttccataaca ttacgaaact ttacgaattt 180  
cgtaacgatg cttgttttct ttccgtaatg ttatgaaacc ttacagatta cgtaatcatc 240  
ccttttttgc cttccgaacg tttacggaat tntacggatt gcgcactaac acttcctttt 300  
aatttcgggc atgtcacgga acttcacgga ttgcctaacg atgggtgccca agtacctcga 360  
tgt 363

<210> 14954  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 14954

agcttggtct atttattatc tacaatgctt tattgaatgc ttttaaggcga aggtagagac 60  
ctgagtcaca catgtatcat cttcctgttg gtgaatgcag aatcaccttg taaagtgttg 120  
ctcttcaact tgatatatgc gttaatggaa gactagttac tagtgcaaca tattatgatt 180  
gggaacaaat gtgtgcaaaa tatataggtg ttgttcccc aaagaatgca ttggtgggat 240  
caaagcataa actaacatgg gtaaaagaaa acatgttgac tctcccaaca gaacccttac 300  
caca 304

<210> 14955  
<211> 290  
<212> DNA  
<213> Glycine max

<400> 14955



cctttccttg tggatgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 60  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gttcttgttt 120  
 cattggacaa cattgtttgg tgactatgct tcatgatgta ttttgggcca tacttgatgt 180  
 acattgtata ttgggtaaat ggtggacatg ctgaatgata tgttgtttct caaatgaaaa 240  
 aaacaaagaa agaaaatatt cgaaaaaaaa aaaatttcaa aaaaaaaaaa 290

<210> 14956  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 14956  
 ttttgggtga aagaacattc gtcataatgt acgttactgt cgttaaaatg atcatataat 60  
 atatatttat aggtgatctc ttccgttttc cctaatatgt aatgtgacct tttcttttta 120  
 gctgtcttgt aagatgagca tacactgaat atcagtactt gtgtgtaaata taattataga 180  
 gtatatgaca ctggtctctt ttggataaat atattaatta ctacaactct ctacttaatg 240  
 ttgtaaaaac tc 252

<210> 14957  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14957

atctttttaca tgactntggn nctatatatg gggcannata cgatgaacaa ggatgtntcta 60  
 tgattggaaa atatccaaaa gtaactactt gtcttaatta tcaattagag gtgaaaaagc 120  
 ctaataccaa aatcatgtac ataannntga aatgaatntg tagcttattt tatagaaaaat 180  
 ataccattta atatgaacat ggttattaat gtttagagata aatttttttg acagcattaa 240  
 ggactagaga tattgatgca cgaattatca gttcttttta ttaaaaatac atttattcaa 300  
 cactttcatt tgttctctat gactttttca atntttntaa taccttaatn gatatccaat 360  
 tttttttaaa atattntggg tatattatgt agnggttctn tattttattc ttat 414

<210> 14958  
 <211> 305

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14958  
  
 aataactcagc ttaaacttca ttgcatccag ccactntctc ttttcttcac tttctcatga 60  
 cctctctaaa gcactcgggt tctccatcat ctgttaggat cacatactca ttaagagaat 120  
 acctcttaga aagttgtctt tccctattag acctcctgat aattggtaaa tatgagctat 180  
 ctttgataat aaaagtatat tgaaaatata tttaaaaata tttatttacc agttatTTTT 240  
 tggcttaaat ggtaggaatt gatatttttc ttatttacgg cttgcagata tgaaaaggag 300  
 ggatt 305

<210> 14959  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14959  
  
 agcttgccctt atagagggtcc aggaaggaca aggcagccga aggaactagt tccgcttccg 60  
 agtatgacag tcaccgcttt angagcgtg tacaccagca gcgcttcgag gccatcaang 120  
 gatggtcgtt tcttccggag cgacgcgtnc agctcangga cgacgagtat actgatntcc 180  
 aggaggaaat anggcgccgg tgggtgggcat cactgggtta ctccatggcc aagtttgatc 240  
 cagaaatagt ccttgagttt tat 263

<210> 14960  
 <211> 587  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14960  
  
 aggaagttct gattgactga ttactatnag cannnaccgc gacactatag aaatacctca 60  
 agcccttctt atccaagggg ctcanntctt ggtgggggtga aagcctcncn nttcttcnca 120  
 ttgtgtctta tntcnnctta natggngatg ngcngccctc ncnntctcac nnctatnntt 180  
 tcnctnnttg tctntcnnc gctgcatttc tcccattggg ggnnnngaaan natcacncat 240

nntaaagggg aaccccannt tgaagcctca nnagaatccc agccccctcca ttagaaaagc 300  
 tccacaagcc aagcttccat tcagatgggc tnntaaaaaa ttcgcggett ttactgcaaa 360  
 tacaagagg accgaaacan aaagccaaat ggatcanatc caaaatctgt cagagattaa 420  
 tcatcaaaag aaacatanat tgatgctaaa tataagtatc atgatgctta atatgaagtg 480  
 aaagagaaca taaattgatg gagtatgact tcagatcccc gtgacaagac cataattgaa 540  
 taaaaaccaa ctgaacaaaa caatttttat catgtggatc aatggag 587

<210> 14961  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14961

agctnngatt attcatggat cgggttagtc cgtttcacac tgttacacga atgtaattatt 60  
 ttgatctacc cccgccagcc aaacaagttg attcacgggt ctattttttt aaaaaagaaa 120  
 aactataaat ttaaaataaa tatattnttt tctcttaaaa aatagtcaat tacactcaat 180  
 tatatatata tattaaaaaa agtcttaata aatctctaata taataactcaa ttacaaaaag 240  
 tttaacacaa ctaaataaat tttcaacata aatgtaaat 279

<210> 14962  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14962

ctaagcttgt accgaattct tcacgctct aattatcaga ttgatgagat tcgattaata 60  
 taaatggctc tggatgtggg atgaaataat tacactcatt cctttccaac catcatttac 120  
 gtcaataaac tttcacattt tgaaattctc caatttacag gctaggggca tgaattgctt 180  
 acacaccagc acacctacaa ttgttcatcg agatctaaag tctccaaatc ttttggttga 240  
 taagaactgg aatgttaagg tatatgattg aaaacttatg cagggtataa tatttgctta 300  
 ttctttatta tcgcataaca taactaaaga gtgccataaa aagtagtgca ataaaaaat 360  
 aacaagacga tgatgatgat gtctngttgg atgatagttt atgatggaaa 410

<210> 14963  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14963

agctntntgg ttattataaa acaatgggca atggttaaag aaagattgtg aaaaagaatt 60  
 ggttggaaga atatcatata tgtatattga atgtgtgcaa aattcatgct tttatagact 120  
 cttcatgtct ggtcaaagaa accattggaa gagtnatgac ttttgagaaa accatgttaa 180  
 gagttataac tcttaaactt ttcttcnaaa ctgttcactg gtaatcgatt accacaaagg 240  
 tgtaatcgat tacacaatgc attttatgaa nagttgtgac tcttcacaat tggatttgaa 300  
 ttccaaccgt cagaatcatt tgtaatcgat tactaatata nggtaatcaa ttagactatt 360  
 tgaanatcat tttggaatg 379

<210> 14964  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14964

gatggaatac ttacttgttg gtgatgaaca acaacgctta actgtttcaa aaaatgcaaa 60  
 anatgatgac cctagggctg caaactcgta aatcccgtgg gtatggcttt tgaaaggggg 120  
 gtgtcatacc ctaatttcgt ccgngacct ttgcttgatg acatgcgacc tttctttggt 180  
 ccttgtgagg tgcttggtac ccatcattan ggaatttgtg aaattctang acattgccga 240  
 aaaccaaaaa aatattgatg cacaatccgt aagtttccgt gacacaccag aaatcaaatg 300  
 gaagcatcgt tgcataatta agtgagggtc cgtaacattc cgtaagtcaa aaaggggatg 360  
 atttatgtat 370

<210> 14965  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14965

ctgctagang ttgcaacatg tatgcggaaa ttgctttcca ttttccacgg taaggtggga 60  
 gatgatgatt gaggatgtct ctcaagtaccg aacaagccta tcaaacattt tcaggtgctc 120  
 ttcaaatacaa tcccaaagga ttgagttgga tgtacataaa tgagaaagtg tgtgtacaaa 180  
 tacaggaatg ggctacaaa aatggctgtt ggtggatggt tgtgt 225

<210> 14966  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 14966  
 aggaaccccc agctataatg cgttcttttg aacctctatg tcgtctggag gatgaaggca 60  
 acgagttcta tatccagagt aagaacaata tgtgttgggt gtggtgaagg aaaccactac 120  
 ttacggtatc aataatccca tcgtgttaca aaacacattt cccttgacat ctgaaaagcc 180  
 atcgtttctca tgacattgtc ctactttgtg tggatttctt tgaagttgca catgctgctg 240  
 cagaaaagta tatgagaaaa gtagctgttg aatttgggat tcctctcta 289

<210> 14967  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14967

aatttcactt acttgcgcta agcgcaatgt cgcgaattaa gagcctatnt aaagtctatc 60  
 ttctgtagaa ttanggtacc agctttacat ctattttaca cacctttatg ataacttcta 120  
 cagaacggcc agggcacaga atngcagagc agctgtntgg atttcggcaa gtgcaccgga 180  
 tcgcacaact agtataaaac agtaagaacc gagtatcgaa ctcttcgtga acttgtgtta 240  
 tttggtgaagc tatttcagca aattgatgtc tagtgtgtta agataagtgt gaatatgaac 300  
 aggggtgtaaa actatctatg caaaaagaaa gaanatcacg cgagagaaat gatgntgtta 360  
 aacaagtaga aacaca 376

<210> 14968  
 <211> 140  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14968

ttccctagta gaatactagt aatgtttcta ctatcatnqn catcgttntt tcgtcattga 60

tgtgccactt gagctgccaan gttctccacc tttgggcgta ttctttgaaa gatccgtgcc 120

cccttttttg cacatgtttt 140

<210> 14969

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14969

nnnggcttat gatagctaga tagactggca nnnnactga gncccggcga tgctgtatat 60

atgaactgga aggcttgcac gctaaggat acttcttttc tcacccaag tggcctanga 120

ggaaggctac cactatatag agccttcac ggctcacac agacacacta cactgtgtct 180

cacagtccct ctcatcagga gcaagatatt gagagccaac ccatcatagt gaaccgtgac 240

ggctctgana ataagtaga aactacgttg cttatgacct cagaagatgt ggagaatacg 300

agttggtgta cttcaagagg ctcgatgatg aattcaacan agtgggacaa gtttacaagt 360

caaaagtgga cgaagtgatg aaggaagctt gcatgctcaa caagcanatg ggatgcttga 420

tagctttcac gatcaagggg gagaagccaa gtttgcgta tttgatcatt ctgtggagat 480

gactcgtctg gcttctgatg ttgctcttca tctgcagg 518

<210> 14970

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14970

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agtagaagat aaacttccaa tgtttgtctt gctgatttca accataacat tttgtattgt 120

gtgccatttt tggctaaaag attattaatt gtagtgcang tcttacttac gcatacagcc 180

gaatagcgtat agtggttaaga atactaaagc aagtcgtttt ttaaagtact tgttagatat 240

aaaatcaata gcttaagctt aggagtcggt atgttctcga tcgtctcagt ttgcttatta 300  
attggatatgt tcttgatcgt ctacg 325

<210> 14971  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14971

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gggtagtgcc aatttagaaa atccctcaat gaatttccta taatagccag ccaaccccaa 120  
gaaactntga acttctgttg gagttgtcgg ttgttgccac tccataaccg actccacttt 180  
aattggatcc acagcaaccc catctttaga aatcacgtgc cctaagaact gcactttctc 240  
taacaaaaat tcacatttcg acaatttggc gaacaatttc ctatccctca ggatatgcaa 300  
cacaattctc aagtgttttt catgctcctc cttattcctt gaatacacta ggatatcatc 360  
aatgaacaca accatgaact 380

<210> 14972  
<211> 282  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14972

accctgatga ggatgtccca tatgttctta tactatactg gtccatttgc ttccaaagtg 60  
tcatggcctt gcaggtgaag acccgcacaa acatctaana gaattccata ttgtctgctc 120  
caccatgaaa ccaccagatg tccaggagga tcacatattt ctgaaggcct ttccttattc 180  
tttagaggga gtggcaaaag actggctata ttaccttgct cccagggtcca tcacgagctt 240  
ggatgacctc aagagagtat tattagaaaa aattttccct ac 282

<210> 14973  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14973

agcttggttct ttntatggaa nggaggagtg gttntctttg cttatcttgt tagcaccgag 60

tttggatcat gtaggaaatc gttagaatcc cttgaaccta agcgagagtt atgagtcaag 120

tatatcaaag tggggaagat cttgttgaag aagaaaaaaa acttacattc gaaggtaggt 180

aatcatgta ttctcgagag tcacgtgtgg actangattg gtagagtgtt gaagtctcga 240

aacatatact ttctttcttg aatcatctca tgtttgagac aatgtcggtc atgtggctaa 300

tcatgtttcc ttgtatttgc ttgttcattt caaatttcat cagtgtctcc tatgctatta 360

cctaactcca aatagtatgt cattcatatt ctattatcat tgagatgtca catttgtgat 420

aaaacttaac ttatgaaat 439

<210> 14974

<211> 325

<212> DNA

<213> Glycine max

<400> 14974

tgtgcctctt catgtctaga atatgaatgt agcatataga tttttagacc cttacgtgct 60

tttctgatgg cttcttcccg ttctaagctt caattggagt cttgtctttt acagacttag 120

ttggacatct gttgagtatg taaatagtag tgtagattgc ttcagcccag aatgtgttag 180

gtagtcctct ctccctgagc atcgatctag ccatttccat aactgtgtga ttctttctct 240

cggacactct attttgttga cgagactatg cgactggtag ttgtcgctca atgccttcat 300

cctcacaaaa tctttcatat tcacg 325

<210> 14975

<211> 362

<212> DNA

<213> Glycine max

<400> 14975

agcttctata tgaagcctct taatgaagct tctagagaag actacatgga gctgactcgg 60

tagaaacgct gccagcctt cgtaaacgt tggatcgtct cgaagtttgg tttgcaactt 120

cacaagacac tttaacctga tttaaccgtt gggatctttg agaaaatata tggagtgtgc 180

tagaagcttc cgttcccgag agcatctctt atttaagcat ttcagccttt gctttcttgt 240



agcttaggaa aaatgccatt tcttcttctt tctttcttcc aaatccattt ctaaagttcc 300  
aagtactttc tccatcaccc acagccacca ttagccacca caaaccatca ttgttctcca 360  
tt 362

<210> 14976  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14976

ntaacctcat cgtccctcac agtctataga tttgggatcc aatccaatcc ttgcgttcgg 60  
actctcaggc acttatgata gccgccgatg atcccattac tgcttctctt aagctctctg 120  
tcctttctgt atgcgcgcat ccatgcgttg cgaactcctt ggagtaccct cgcgtttgtg 180  
gtcactgaaa ccncatgcga tgaaaggcat gatgctgtca tctgatggca cttctctcat 240  
gggtgtagcca agctgtctta tggcgacgac gggattataa ttaatacaac cccttgttcc 300  
cat 303

<210> 14977  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14977

agcttttgat tattatatta tataaccaca catagaatgg tgagatgcct canaatagat 60  
tgccttatca gtaagagtaa gtgtgccagg ccatgccata ttattctccc atttcaaaac 120  
aggtcgctta ctgttggaac caatgcataa aatcctctcc tcagaaagtt gaggaaactc 180  
tggaatctga tatgatattc gtctttgacg cactctgcag taatatcagt accagttcat 240  
cacagaagtt gtcataccaa agaatgtctt gaagttctga gagcattcca gcactatcaa 300  
gcaatgagca tgctgtacaa cagacataaa ttgaaagatg gaactaac 348

<210> 14978  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14978

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 cattctattg gggttcttac ctgtcaagtn tggaaaaacc agacaaggga tcaactcagt 120  
 cattgcatct atacaatcaa tctttctcag ccattgtcat tttgatggct cttacctcta 180  
 accttcacac atactttcgg cttatgaatg aacgtgcaag gaggcacctt tcacttgtgc 240  
 taaataatga tgaatatcaa atgaagtttc tagt 274

<210> 14979  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14979

tgcttttgat tgactatacc aagctctang aaccaggac ggagaaagat ctatatatag 60  
 gcttgctaag ggtagagaga ggaagactag agaattggat caagtaaagt gtgttaagga 120  
 tgaagaaagc aaagtcttag tgcataaaaa agatatcaag gaaagggtga aggcgtatct 180  
 ccaccaactt attaattgatg gatattggata tgactctagc agtctagaca caagagaaga 240  
 ggaccganac tataagtact atcgtcggat tcagaaacag gaagt 285

<210> 14980  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14980

ntacagcaga tnttagtaat gaccactaa cctagaatta atataactta atgccattaa 60  
 cctaggaat taaaacaaac taaatggctg agtgtaactg aaattgttgg caaccaaag 120  
 tcaccccaa cagccaacaa gtcagccacc atttggctc ccaaaaggct gatgcctatg 180  
 ttgccattg ngcccttatt acaacttgaa ctaaagccct tntagttgat taaccanaa 240  
 catanttttg gtcagccaac tttacaagga ttgtgccatt atntagacaa actaaacact 300  
 ct 302

<210> 14981  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14981

ttgcttctta tgtgtgacat aaaatagtca cgataagatt tgattgggtg gcaatacaca 60  
 ttttaattata ttatttgtat ttctctcatt atttcacttc tcatatatga tccacacaaa 120  
 catataataa agatctaaga caagcttgaa agatgatctg ttttaagaaa tctggaaggt 180  
 gattattaag aaggaaaaat attttattca gattaatttt attgtcactg agaaagaaaa 240  
 aagggttatg tgtgtaaaaa gtcctacacg attaagatat cattattata atcataagtg 300  
 aggggtggtaa gttttaaaaa ataattatnt tatgatgaat tanatgatga tctatcattg 360  
 acagagaacg taaatttatt ttacacatat gtatgaacat caaactcata nattacata 419

<210> 14982  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14982

acttctattg gcatgacttt ngcagtttga atatgattta taatcgggta atgcatacct 60  
 aattccctat ttgaacttgt cagcccagcc ttctcagtca aatcttcttg ttatccacca 120  
 ctcttctcca attcgggctt ccattctgaa ttcaccccc tcttttactt cactaaatgt 180  
 aaattcagtg ctttatttca cacacatagc acaataattc aattaaataa tagagcagca 240  
 tacatacttt aattcaaaca tgacataaca ttacatgcag acatataatt t 291

<210> 14983  
 <211> 135  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14983

tttcngtttt ctctcgagc ttctccgaca gcccttggac ccatttgctn tcgaggtagg 60  
 tggccttctt cttagctntg gttatgttat gcactacatt acggtagggt agtgtaacgt 120

taagttagtg gaacc

135

<210> 14984  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14984

ctcaagcctg cattctatgc ccagaaagta ctcaagagtg ctattttgct taatataana 60  
ggnancatnc aacttggttca cgatgaggtt aatagcagtg ttggaggaac ccgtgatgat 120  
tatatcatct acataaatga gattaagcag gcagcaacca tgttttgtga atacgagaag 180  
agaggggatca cacttggatt gttgaaaacc aaaggagatg agagtatttg tcaaactctc 240  
ataccaagcc ctgggggctt gttgtaaacc atatattgcc ttgtgaagtt tgcatacaag 300  
agtggattca cccttgatta aagccttg 328

<210> 14985  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14985

ttaagtcacc tgcngctgca acttgccttt atgattacag ttgataaaat gacatattcct 60  
caacctgaac acaacagctc tcacttcaga cctgccatta tgctcacaga taataagcat 120  
aaaaccacaa ttcatacttc agtattacag taagcctata tttaatcaga gatcaataac 180  
atctgaaagg ccttatatct aaaacgcata tcatgtgggt tatggggagg taccaatgat 240  
ttggtaaata atttaagtga tgcagtatgt tgatgtatat ttaaacaagt actacaacta 300  
gataaattac taatctgaac aaatggaatt actaatcact actggattta catgatcac 359

<210> 14986  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14986

ataaaatatt ggtgtggctt atctttatat taatctcaac caacacattg tgattgtggt 60

gggaagaaaa gaataattta aagggagggg agcagcatgg taaggggagg agggcaataa 120  
 cgtaatttga gtggttgtga aaattacttg acaggcaatc tttgtctcat atgcaataga 180  
 gttacacca aggcagcaca caacacagcc attcccaaag agaaacaaac acagttgcat 240  
 tgttgcaatt gcaactaaaa tccgcgcctg ngatcgacc ttcatttcaa aacctgctcc 300  
 atttttttct ttctttcttt cgcttccgta gctctatctc taagcgtgca cgcgcgctc 360  
 tagtgcaatt attagttagt ttgattggaa tgggt 394

<210> 14987  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14987

ccttgaatct tcttcatcaa tgatgttctt tgcttcttga agatcaatga caacagaatg 60  
 gagaaggagg aanggtgatt gaagacgtca cttcaaagag aatatgagtc aagaagaaac 120  
 tcaccacaat aggaagtcac ggataagagc tngaagggtan gagaagatga gtgaaggagg 180  
 agggaaagaa gagcacgana tttatgcctc anagtaggtc taaactttga agtataattc 240  
 tcaaatgatc aaagttgaaa aaaatgcaca cacaagacct ctatttatag cctaagtgtt 300  
 acacaaaatt agaggaaaaa ttgaatttct attcaaattt ca 342

<210> 14988  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14988

atggtggtga gacaagcatt anatttgggt tctttggacc aatctctgtt ttttgaattt 60  
 atcttanaaa ataccattt gtttttaatg aaattggtct ggaataaaac agataaaatt 120  
 ttaaacaat tctatgttg atcccttgag agatgaggtc aaattagttc ctatgtgtga 180  
 catgcaaggc gacttcactg ttgtgcaaat agagtctagt agtgtgtagc tttccttgat 240  
 tttgagtctc tatggtggtc aaattgaaat ggtgtttaca atttattaaa ctagagagaa 300  
 atttttttta gcatgtaaat tagaaaaatt atagaggtta ccttcaaatt t 351

<210> 14989  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14989

catcttggtg gtgaagctcc tacttccatg gcttattccc tagtggatgg cacctcttct 60  
 cacctcttct cctttgtctt tcgctgcac tccatgggtg aaaatcacca ttaaaggacc 120  
 tcattgaagc tcaaagatcc agccctcata gatgccccac aagcaagctt ccatcaagtg 180  
 gtaatcagag cacaagagct tcaagtaggt gtccttana cctccattaa ttgttttgct 240  
 ntacctctc ttccattgtt gnttcttcat tnttttctcc atgtatctcc tcacatgtat 300  
 ngcgctaaat agttgtaaca tgattcttta aattttccac tgattaa 347

<210> 14990  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14990

atttcttctt ctactgagac agngtggtat atgaatctga atatnagann naaaagttat 60  
 tatggaattg ttaatgctcg tgattttgac ttataagtac tgcatatatg tgtttatgtt 120  
 attataaaat ggttgatatt gaagttcaaa ctcaatcaca agtgatacaa gctgatagtg 180  
 agggatgatgc tgatcctact tattcacctt catatttaag tggggatgac gatataact 240  
 tggatgatga gactatagca tcgtttatgt c 271

<210> 14991  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<400> 14991

gcatgttctc atgcactctg tcaagataac attagccac atccgaaaga taaaataaaa 60  
 gaaacattaa tctccgatat tgatcgaaaa catgctgggt gacgtcggcc aggaaagatg 120  
 accgatcgag gtctataaat ataacgatca ccgtatgacg ccaatccaac atttcctaatt 180

tgacatcatc caaatattat ccaatgattg gata

214

<210> 14992  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14992

cctcgaataa acatcgaaac tcttagactt tcatatggcc ataactntnc acacggatgt 60  
ctgattcggg cgcataatat gtcgagaggc tcgaaattga acaatggaag ctcttgagaa 120  
attccaatag tcataagttt tcacacggat gtccgaatca ggcttataat atatcgatac 180  
gagcgaaaat aaacatcgaa aactctcgag atatcatatg gccataactt ttcacaccga 240  
tgtccgattc gggcgcataa tatgtcgaga ggctcataat tgaacaacag aagctcttga 300  
gaaattcaaa tggtcataaa ctttcacacg ggtgttagat taatgcgcat cacata 356

<210> 14993  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14993

tgctttctta ttatnctcta cccttctgcc tcgtgtaagg gttaatagaa ggcactattg 60  
gaaatcagat aaaaattact attccctgat aagtaatcca agccaaacat ataagacttg 120  
ttctgttaca agataaacct cttgccatta tactttctcac ccttttcttg caccctaatt 180  
aacaagcccc tcatgtaaat ggtgcagaaa tctctcttct aaacgaagta tngctttgaa 240  
cctcacatgt aagaaaaggg ggaaattcca ctttaattta ctaccncaa gttccaaagc 300  
catctccatt taaacgttct cttttctatn gggtgtgtag aggaaagact gtngatgaac 360  
aatatataca ttanaattgc tataaggaga aactaagtat gcttaatatt gcatgtcaaa 420  
caacac 426

<210> 14994  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 14994

ccttcatagc cacaccacca acatctatgc tagtggttatt gagaatatag aagtaggata 60  
gctgtggatt agaaagcatt ctggtgtaag tgatgggatt agcggttcttg acaactgaag 120  
actcattacc cataactaat gacccagaag aaccagcttc tgttggttggg aagcagtatg 180  
agaaaactcc tccaaatgtg gcattagttt gagataccaa tgag 224

<210> 14995

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14995

agctgttgnc tttatatgtc gagtgtctcg atatatgacg agacttaatc agacatccga 60  
gtaaaaagct atggtcgttt gaatgtgcaa cgaccatcaa cattcaattt cgagcctctc 120  
gatatattac gcgactcaat cagacatcag agtaaaaagt tattgtcgct tgaatgtgca 180  
acgacatca acattcaatt tcgagcgtgt cgatatatta cgcgactcaa tcagacatca 240  
gagtaaaaag ttattgtccg nttgaatntg caacgacat caacattcaa tttcgagcgt 300  
ctcgatatat ttcgcgactc aatcagacat ccgagttaaa aggtattgtc gtttgaatnt 360  
gctcagagct ttagcattca agtttcagt cctcgatata ttacgggact caatcagaca 420  
tcagagtaaa atggtatcgg cgttc 445

<210> 14996

<211> 213

<212> DNA

<213> Glycine max

<400> 14996

ttcttcgcgc gagctcacgc gaagttgtat ttctgcccac gccggcattt tgtctgccag 60  
gataacatta gcccacctcg gcaaaaaaaaa aacatgattc accggtattg acagaaagaa 120  
atgctgggct tagtcggcca cgaaagatga ccgaccgagg tctaaaaaat aagcgtgacc 180  
ggattacgcc gatcgaaccg ctctaatag ata 213

<210> 14997



<211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14997  
  
 agcttttttat gtgatatagg tgcagccatc tccctaagag tcctctcacg aagtggaggt 60  
 tgagccatgt tctcagtata aaaattagta gtggatgctc anaatcagaa tatttagaat 120  
 caccctcaac agaatgctca gaatgctcaa aatgcacaga atgaccagga tgcacactat 180  
 gcctaactaa tctatgaaag gttctatcta tttcangatc aaagggttgt aaatcacttg 240  
 gattgaccct agttatgcac tatatgcagc aaataatgtg tttctcaaca agcacctaac 300  
 aaggngtaaa actacagcta tactcaaatg atatcaaaat aagctgaaat tntgtgagga 360  
 acacccttaa atcatgaaaa g 381

<210> 14998  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14998  
  
 tgtaactctt ggcaatttgt ttaaaactag tcacttataa agtatgactt ttgaaataat 60  
 cttcagaana aagtcacttg aagaattatg actcttggaa atgtattttt cgaaatcagt 120  
 cactggtaat cgattaccat taagggttag ccgattacac atcaacagat gtgactcttc 180  
 attntgaatt ntgaaaatct taacgttcta aaatactggg aattgattac atgattatgg 240  
 taattgatta caactttgta aatcagtttg aaaaacaatg ctggctactg gtaatcgatt 300  
 actaccttct gtaaaaagat tttgtgaaaa cttcatgtgc tactcaatgt tttgaaaaac 360  
 tt 362

<210> 14999  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14999  
  
 agcttattgt atcaaaattg cctcaatcat ttccaaatat gcatgtgaat tangacgcat 60

caacaagaat caagccaagg ctattgtgca agccaatcaa tgggcaaaac acaccanatg 120  
attatgatga tggatggctc anattctcac anaggtaaaa tcatcacttt caaattgagc 180  
tntcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aacttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt canagaanaa 300  
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactaaa aatccgacga 360  
aactaataac attaacaaat taacacaact aacaaatcaa caaactagca aaccaaagac 420  
actccccccc ccccccat 438

<210> 15000  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 15000  
tatttgaatc actaagtaaa atttatgata tccctgttaa gtttatttgt gtaattcata 60  
cctaattatt atccaattta gggcccatg gcagctgggtt gttatgtgtc ctacaagcaa 120  
tggtgtcgtc tggttttgtt cattgtttta gaagcttgat tttcgtatca aagctgcaat 180  
aaacaagtta agttttatat tataagacat ttaattcatt ttttaagttgg atacataaat 240  
agtttttccc tcatttacac gtccatatct ttctatgcaa tgcattcaag acattaaaga 300  
ctacttctga cggtaacatt gatcaagcta cacctcagtg gattgagtaa aggtagtcac 360  
ataattaatg gtatttct 378

<210> 15001  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 15001  
agcttttcgt ctccgatttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgtc atgattcaag 240  
caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300

atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcacaaag 360  
 caatccaagt ggagcaacaa t 381

<210> 15002  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15002

tgaaattgaa caacggaagc tctcgagaaa atcgagttgt cttttatatt ttcacacaga 60  
 tgtccgattc ggggaaataa tatatcgaga cgcacgatat tgaacaacgg aagctctcga 120  
 gaaaattgaa tggtcataac atttcactcg gatgttcgat ccggggacat aatttatcga 180  
 gacgctcgaa attgaacaac cgaagctctc gacaaattag aatggtcgta acttttcacg 240  
 cgaatgttcg attcggggac ataactcatc tagacgctcg aaattgaaca acggaagctc 300  
 tcgagaaatt cgaatggtca taagttntca cacggatg 338

<210> 15003  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15003

ttgcttgatc ttactagnnn ntntctcaac cttatcgctc ctaagctagc aacaagtatt 60  
 tttctcaact ttatcttcac cagagctagc aacaattcat ccccatagag gttttacgat 120  
 aanacagag tgtctctcan atatagagat ggatatacag atataagctc actatagagt 180  
 tacaagatga aaatccaaca aaatcacaaa ggaatctcta catttcttct ttcttttcat 240  
 ttttccttag ccttctattc tg 262

<210> 15004  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15004

aactcaagct tgcaattaaa ggttgtaaag aacccaaaagg tgtaatattc tcttccataa 60  
tcagcaatgt caatgatgtg ctcatTTTTgc attccatata aaggatcggg aacggctntg 120  
ttcttcacca aggtcgctag aacactgtta agtgattgcg cggaatgaag tcaataaatt 180  
aaagaggatg taaaatacta aaattgtgaa atggaaaatg agattgtgat tacgttccat 240  
gaacgagagc ttgcatccat ggtgaaaagg ggcgtg 276

<210> 15005  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15005

agcttcttgt tatattatgt ggcagaatcg gacttctgtt tgaaaagtta tgaccatttg 60  
aatttctcga gagctntggg tgttcaattt cgagtgtctc gatataattat gcacctgaat 120  
cggacttccg tgtgacaagt tatgaccatt tgaatttcac gagagcattc gttgttcaat 180  
ttcgagcatc tcgatataatt atgcgcctga atcggacttc cgtgtgacaa gttatgacca 240  
tttgagtttc tcaagtgcct ccgttgttca atttcaagct tctcgatata ttatgcgcct 300  
gaatcggact tccgtgtgac aagttatgac catttgaatt tctcgacagc atacgttggt 360  
caatttcgag cgtctcgata tattatg 387

<210> 15006  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 15006

tctcgatata ttatgcgcct gaatcagact tccgttacia atgttatgac catatgaatt 60  
tctcgagagc cttcgttggt caattacgag cgtcttgata tagtatgcgc cttaatcgga 120  
cttccgtgtg ataagttatg accatttgaa tttgtcgaga gcttccgatt ttcaatttat 180  
agcttctcga tatattatga acctgaatcg gactttcgtg tgacaagtta tgacctattg 240  
gatactaca tagcattc 258

<210> 15007  
<211> 132

<212> DNA  
 <213> Glycine max  
 <400> 15007

gctcacctg tcttaacagt agtgcacat acgcttgga ccatcaatat gttaaacc 60  
 ctatacattg ttcgcagatg actactcatg gaggtgattg ccaacactga cctgtggata 120  
 ctcggtatct tc 132

<210> 15008  
 <211> 686  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15008

cgctcccg tncncnnat cntcacattc ntaaantnta nacatgctat acggatacca 60  
 actggantat gtntantana naanannnnn nnagcgagga ntatttgaaa gcaactgcgaa 120  
 cacgcgacac tanannanac tcatactnnc atcacgtcgg tcaatgctgg acatttggtg 180  
 acagtgacta cacttggaac tctagactct cacaacacat caatatctac tgactccatg 240  
 agttgggtcta cncagatata tggtgatcac agcagcgag aatctaacac actatcctct 300  
 gacaaacaca ctttgataat catcaatttt tctgtacgat atgccacacg gaatgttgac 360  
 aattagaact ctctgacaac gtccgtataa tcagcctcac aacttggtga ctgtcaccag 420  
 tagcccaaca gacctgatga agtccatgat ctctctgcc caccgatgta acctctccac 480  
 acgaaatcta atcacaagca atgcacagcg cgtatactac tagatcttcc aacactctct 540  
 gctatggcac atgcgatgta atcgagccgc cagtccaact ggtgcatcaa cggacactcg 600  
 tccgcgaccc gcanttacca tggtgctgtc ggacacttat gatgtgcata gcatccacat 660  
 gcacatatct cactacgagc gcaccg 686

<210> 15009  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15009

agttaaatga accttagtac ctggaacaac aaactcagca tcatcngccg taattgccta 60

atccgtatct actacaacct acattagnga gtttctactt cattcggctc gggcgtcaag 120  
acaantcatt cacattactg tcaacacggt gcaacggact ctaaacttgt acacaggctc 180  
ggctatctcg gcacatatgc gccataaata atgccaaacc agcgtcttga tcattgacac 240  
cttatgcatg tacttaattc gtctgataac atgctacatc tggaatcaac aacaatagta 300  
cttttttagt ataagttctc catatctctg acaatttagc gtggctgtct tccactccat 360  
gatgcctata cgacgcgctg ccgttaactc taactcgttt agctcacact aatcactcac 420  
catgacgcct gctcacacat gaagtaaact tgcacatact cttatgcctc ataattttga 480  
tattcctagc tgttcagaca acgtcgatcg aatcatcttt cgtactctc t 531

<210> 15010  
<211> 347  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15010

tcaagcccta aggcagagct nganagagtt cgggtagtgc aagataagtt caagtccata 60  
gccatcaaag tctgataaga gtatgatgaa ctaagggacg tctatatggc cacagctgaa 120  
gctttggaac gagaaacaag atggcccgaag aggatgaaca ctaccanagc aaagttttga 180  
ggggctctat atggcatcaa tagtgagctc aagctccgaag taggtgatag gaatcatcac 240  
gggtcatagg catgatcttg aatgacgagc taaagggttg ccttaogtgc aacagaaatt 300  
tggeccaaca tgttagcgag actgaaggga atatgtgggc catcatc 347

<210> 15011  
<211> 614  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15011

acactgacgc cacacntcac actactgtat atagttctat ctctgtcang gcgatcgca 60  
taaaaaacaa aanagagat ggatttgatc cctggaactg cgaacatoga aactccgcac 120  
tactgatcat atcgcaaaga tgggttgata aaaactacat atttatgca ctcattactg 180  
agaaangaaa catcgacat actatgacct gacgacatga gcaccgaact aagcggtaac 240

ttgatggagt acggaataga agctcgaagg acgctactct tgctcctcta tatatctatg 300  
 ccaaacaaga tcagaacgac ctatgctatc agtaacggca tggaaactata caagacacat 360  
 gaggttaaac acaccaaacc gaacttgcta gttttcatga caatcgacgg tctctttaga 420  
 gaatcatcta ccaatgagcg ccatcacgtg gaagaatcgg agacactaca catacacgaa 480  
 gataaactaa gacataacaa ttgataagaa cagacgttga acatcagaag agatgaatgt 540  
 tgctacgata ctgtggaatc atctcagtga gcatcaatac gatacacaac cagacgtgag 600  
 aggcgcgaaa ggc 614

<210> 15012  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15012

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 ctggtccctt tcttccttc gcaacttgag ttactattg ctacccata gagctccgcg 120  
 aaatttggtc cggccatact cttacttgcg agccctcttg gtctctcgat caagggctct 180  
 tgcggtaatt gcattctctt cccgtgacct ggcacactcc ttccgaacgt gtgtagcagc 240  
 caacttgaac ttctgcttg cgagtattgc ctttcctaac tcgcttttga gagcttggac 300  
 ttactcgtcc tcttcgggtg cttcataatt cccttcgctg acgactatta acttggcgag 360  
 ccaatctaaa cctcgtatgc gaactttcag ccattcgtgg taccaccaa tgatgccatt 420  
 acgaatgcct ctaagctc 438

<210> 15013  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15013

tatgatagga tgagatagaa ttntatttct aatgttcttc attaagtgtt ctttcctcaa 60  
 cagctaattt caatcattat gcatngtatt aattcagtc aatctaattc attgtggaat 120  
 ggtcataggg ttgccccttt cttacctcaa tgtggcttga gacaaggaga tcccatgtct 180

ccgtatattg ttgcgacgtg tatggataag tcatctcatc taatccttta agctcttcat 240  
gcaggtcaat ggaagcctat gagagctggg cgaaatggac cattcatctc acacttaatg 300  
tttgtggatg atcctttact ctctggaaaa gcatcaataa gtcaaattaa atgtattcaa 360  
catggcttga cgactctctg tgatatgtca tgacaa 396

<210> 15014  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15014

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agttctaata agatatgata acttattaaa taagcaattg attagttaatt ctaacaacat 120  
ctatgtattc tcatgaatta ttatctatct aaaaacattt tattttattat tcaaaacatt 180  
actttcacaa aaatcaatgt ttgaacagaa gtttataaac acagaanatt ataaattaaa 240  
ttgaaatgca ttgaaaatat aatgattttt tataaccatta tttaatcatg tatatgataa 300  
atattgtttat ttttataata aatattttta gtcattttata agatgaattt tatttgattc 360  
atatagcgta naaattaaat tntcattana tattttaaaaa ctcaotttctt aatagatatc 420  
tag 423

<210> 15015  
<211> 387  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15015

gaatgaaaga agcggttgat tctcgcaaaa agaatttttc aaggacgaga aatagttgaa 60  
ggactttttc agttgacggg ttaagtcaaa tgactcctat acttgataac ttacttctct 120  
ctaaaattnt ccggaatgat aaaatgaggt cacatgaacg tctatatttt tacttgaaaa 180  
cacagtcaat caaatggctt tttctttttc tttttgaact gtcttgcttt actcgtcgtt 240  
ntacggcacc ctcaccaaatt gtgtagcacg agtaatctct aattgaacgg tcttggaagt 300  
caacactcan gagegcatgt tgcttgagca nacagagcaa tggctngcac tcacattcng 360



atggaagttg aataagcaat gatgtgt 387

<210> 15016  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 15016

gtgatcacct tggcaatctg atgctcacia tcattccatat ctatcactcc atcaagtgggt 60  
 ctaccagat attagccgat cacatcatgg gagaatatat cacacttgcc tctgacaaga 120  
 cactctcgat catcatcact ctttctgtct gatatgtcag agggaatgct gacaatgaat 180  
 accctgacta ggccttcgta acagtcttcc agcttggtga ctgtcttcag tagaccagca 240  
 gacttggtga tgtccatgat c 261

<210> 15017  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15017

cgacactata gatactaagc tgtctgttta tactcactct ctcgttattg tgattggagt 60  
 tatatataag ataaaatgtc accaaatata atgagaaatc tgtcttanat aataaagatt 120  
 gaaaagaagc tntggctcttg cttttccttt tattcttctt tcattntgac cacttgttct 180  
 gtctatgtca aatngtctaa tgtaacaggc tttctgttgg gctggttgca cttctccaag 240  
 gtggtgatgc aaatgatcac tgttcctggg gccattatct gtcttggtgtt ccaacttcaa 300  
 aatggagctg ccatacagag gcagcatatt gtcaggtaag caatTTTTTA cctgaaagcc 360  
 tcttcatatg aataatatta tcagatcttc tgaattactt atgttcaccg acatnttatg 420  
 aatgggtatc ttttaaccct tttcatgcaa ttgttatatt gaatcattat atctctaaac 480  
 aaattggtga tctctaaaag tataatcat 509

<210> 15018  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15018

tgctcatgca tacgcataca catgcatatt tgttatcttg tgacaggggc aggattgttt 60  
 tatgcaatag tcaaacaccg agccaaatcc aaaggcagag acgaatcgat gtaagcagta 120  
 acgcgggccat gatttgctgc gcaatgtcat ttcttgcctt caagtactta tggatgggca 180  
 caagtagagg ttaggccccat gatcaacaga tcatcgctccc atgtccagct tcagacaagc 240  
 gagaagcgct actgggagggc agcctagtag ccttttaaatt cctagatatt attgcttgtg 300  
 tgtctntaag gggatggctg gatgccttgt ttaccctang ggcttcgagt tagcgaacgc 360  
 cgacccatag agagcgcgta cctttgtttt 390

<210> 15019  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15019

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 atgtagtgtc atcctatccg gaactatc agaatagtag tgatactgcc taacgaaggc 120  
 aaccattagg tctttccaag tatggactcg ggaagggtcc aagttagtgt accaggtaac 180  
 agctacccca gtaagacttt cttggaagat atgtattagc agttcctcat ctttgcatat 240  
 gcccttatct tccgacaata catctttgga tggttcttgg ggcaagtagt ccccttgtag 300  
 ttgtcaaagt ccagcaccat gaacttggga ggggtgatga tattgggtac taagaacaac 360  
 tcttctaggt tagcaaaggc ataatctata cctncttcaa tggccctgag cttttcc 417

<210> 15020  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15020

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 ggtgaaaaac aagagcaagc ctttgctttg cttaaagaag agcttactaa ggcacctgtt 120  
 ctagctcttc ctaacttttc taaaactttt gagctaaaat gtgatgcctc tggagtggga 180

gttgagctg ttttgttgca aggtgggcac cctattgctt attttagtga anaacttcat 240  
 ggtgcgaccc ttaactaccc cacctatgat aaagagcttt atgccttaat aagagcactc 300  
 cgaacttggg aacattacct tgtttccaag gaatttgtca ttcatagtga tcaacaatca 360  
 ctttaagttca ttagagggca aagcatgtta nacaaaaggc atgcaaaatg ggtagagtac 420  
 cta 423

<210> 15021  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15021

tttgagaggg ggtgggctac tgcacaaaaa agacaatgga tatttcagga atggggaaaa 60  
 ggggtctcggg agtttttagct gangcgggag agtctgtatt attatattat tatttccttc 120  
 tctttccttt ntatttaaac ggtgcatttc attcgtccca cttgataaac attcgtcctc 180  
 gaattatgat ctatgactaa ccttgagttc aaacaagtga ggatacttct cacgcataat 240  
 gatttctggg tcccaagtca tctcctctcc tgctggccct cttctagcca ctttactga 300  
 tacaacatcc ttagaacgta tacgttcaca cg 332

<210> 15022  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15022

tcaacgggat cgacagaccc ttggcatcac tctatcagga tattatcact tggtcacata 60  
 ccaaagtgtg acaattcatt gccatccttc aatggggcgc acaattgatc ccatagcctt 120  
 acgttttctt gctgtgcaga aagagacagt caatctatgt tntccacaaa tggaaaaaaa 180  
 agaagcatag aaaatcagat cataatcaat atcgcaaaaa tatggataga atgtcatgag 240  
 cattacacaa ttttcatgat tcanaacctt ctgcattact agcatttcaa gatgaagggt 300  
 gcatgcatct gcatccana tcatgttcat attaggctat aagtgcatag atntctcttt 360  
 acataccact ntcccaaadc taatctttca tgtttaggat gagaggccct tntatagagt 420

caacctcttg ctntctcat

439

<210> 15023

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15023

cgccacccag ctgcccagg cgagctcagc tcgctcaggc gagcanggtt gcttctctca 60

gaagcaacag ccttttggag gaatcttctg gaaggcccaa gtgggcctgg ttgctatttg 120

cacccccatt nttactaagt acaccccctg cctttntttg gtgattcttt tttcgtaaag 180

ttacggaaac ttacaaattt cgtaacgata cttgttttct ttccgtaatg ttacgggaacc 240

ttgtggatta cataatcatt ccctttntga cttacgaaat gttacggaac ctactaatt 300

gtgcaacgat gcttccattt gatttccggg gtgtcacgga accttacaga tngtgcata 360

atattttctt ttgctttcca gcatgtcccg gaattcacia attgcctaata gatgggtgcc 420

angcacctca caaggaccaa acaaaagttg catgtcatc 459

<210> 15024

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15024

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ttctatagac cccacagtgt taactgcagt taagcgtgtg tagtcatttg ctacaacttc 120

gtactattca gacagacgta tcattcttct tcttaattac tacatcaaca atacaagtgc 180

aaactcgggt tctgatggaa ttttttcaca aacggaaaag ttactttttac atgcatnta 240

actgaaatga gacaaagtgt tcagtagacg ttgtcacgtt gataagaacg aaagtataca 300

gagagagaag gaaaatatta aacaaaaaaaa ataaagggca ggtcatatgt aatttttntt 360

aacatattta ctanagggtga aaggtagtac tctaattaac cagtcattnt aattttcacc 420

acttttcgca tatattatta tgggtgggcta tgccgacctg 460

<210> 15025  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15025

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cgaggcaatg agactacata ngcacatgac acgttcacat tcgaggatcc ttgccggaag 60
gcacaacgtg tttgtttgtc aactacactt ggggcactcc aaaacaaata aatgaccttt 120
tgtttgatga tacattacat cctcgtagat gttccacaaa tattttgaga aggggaatgt 180
acatgtaact aaacctaga gtccaatcac caaccgacat tagtaattgg atgtgcatgt 240
atccacgtac catacggcga atactagata atctcatcaa tgtgattact tgattgcttc 300
agaggagaat cacgcattcta tctcctaatt atatatcatt gcgtacgttg taaacatgca 360
cg 362
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<210> 15026  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15026

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tcaaagttgg ccaatagtag ctgactctta gaactcttat ggccattggg ctctccctag 60
aatgcatacc acanacacct tcatgtagtt ctggaagaac atagtaagcc tgggtcttggt 120
caagacattn tgagtagagg tgaggagaaa cctctcctat atagtttggt agtcactaag 180
gtataccaga catcttgcat tcttagttgt ctggcttttc ccttggtctat tgtgagtgtc 240
tcatgtttta agtactcgac tatctctttt ttccatctcg aagggccttc ctccacctgt 300
aagcattctt ttcccgagat gttgggttcg ggaaccaa at ggagtgtgaa tgttnttagt 360
taccaaggtt taggtcaagt tgcaagttaa gccaaactcg cggttttggtc attaacttct 420
tagcttatat gaatcaccta aacttctctc nactcttctt tg 462
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<210> 15027  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15027

acactatcaa actaagctan agacctatat taactttata tgtacaatat attaaacagt 60

ttcaataatt tagaaccggc cttcttattc aacctattgt ataggattat agagatacaa 120

accaagtttc tttcttttcta tattgctacg tgctccatac aatatataat taaactgtca 180

tataattacc aataaaattg tcatataatt aaaagtcatt ggaaattatg aaaattacgt 240

taacaattag atttaaagta ttatcctatt tggtaaaatc tttataactta catatatcaa 300

aatcaaatca aataattatg g 321

<210> 15028

<211> 485

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15028

gagatccata gatctaattc aaggtagatg tttcataaat gggatntcgt tgcttgtggt 60

gtttgattcc agtgccacct attcctttat atcctgtttg taagtagaaa aacttaagct 120

nttctgtgtc ttcttttaa ataatgatctag tggtaggagac cctactagt ggttntgtgt 180

taacttctta tgtgtgtttg aattgtcctg tggagatttc tagtagaaca ttcttgattg 240

atttgatttg tttgcctttg agccagattg atgttattct tggtaggaa ctggtatctt 300

ccaaccatgt cttgttaaac tgttttgata aaagtgtggt gtttgatgat tctgtagtga 360

gtaaagatat gatgtttatc tctgccaaca aagttatgac atctntaaag gaagatgctc 420

aagtgtacat gattctgtct aacctggata tagagaacaa ggtttctatg tgtgaacttc 480

ctatt 485

<210> 15029

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15029

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ccttgcaaca ggtacagatt tctgattcaa ggccagctgg gttaccaagt taaccaatgc 120

atccagtttt ccttcaagct tcttaatttc agatgatgca gatggggttg tagctacctc 180  
 atgcactcct ctaatgacta tggcatcatt tctggtgcta aactggtggg agttggaagc 240  
 catctttctca attaaatttc tggcttcagc aggagtcatg tctccaaggg ctccaccact 300  
 ggtagcatct atcatacttc tcttcatatt actgagtnct tcataanaat attggagaag 360  
 aagctgttct gaaatctgat ggtgggtggca actggcacat agtttattaa atctctccta 420  
 gtactcatac a 431

<210> 15030  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <400> 15030

cactatcata ctacgcttcg gctattcaat tgctccagat tgctgcatag aagggaatg 60  
 gtttgatatg tggtcaccag aggagcatat accacagagt cttgcgacag gtacaaattt 120  
 ttgattcatg gctagttagg ataccagggt aaccaaggcg tctagttaa cttcaagctt 180  
 cttagttaa gatgatgcag atgaatttgt ggctacctca ttcaacttctc taatgactat 240  
 agcctcattt atggcgctaa actgggtggga gtcggaagcc atcctctcaa ttaaatttct 300  
 ggcttcagc 309

<210> 15031  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15031

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 gatcacggtg ttgcatacag agatcttaat acgcagagga ttctgttgga taagcatggg 120  
 aatgcttgct tgggtgatat gggcattgtc actgcctgca agaattgtcg agaggcaatg 180  
 gattatgaaa ctgatggta tcgatggcta gcaccagagg ttngccccta atcacactct 240  
 nttcaagta gcaaagcaat tgctgaaatt atgaagaaa caaatgtatc aggccactan 300  
 gctgcatagt cttgtttaat tctgtattgc atctgcata aatattccct atatttctcc 360  
 ntgagtttct ttcaatagaa gaatanaatt aaagacctaa attctttaag acctagactc 420

tgcaatctgc atcaca

436

<210> 15032

<211> 495

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15032

nntgctgaga aaatggctct tttaatatcc cccacagaaga taaatcagtt accctgtcgc 60

ctacaaaaaa agtatgtata gttgcaatat aaatgaagca tctatcctac aaggacacta 120

tttcaaacat atcgtaaaaa ttaacagtaa tgaaaaagac agattcattg ctagacaaat 180

gttagcctaa catcaagcaa aatggaagca cataatagcc agaataccta gtaacagaag 240

tggcatgatt aatagaacat caagcaatgt caaaatacct atcatgcatt gtgaagtaaa 300

cagttcagca gcctgagcaa gatatttatc acacagagag tcatcacttg aatttccttc 360

agcctccact aactcatgcc tctcagaacg atcaccactc agaagaatat gactagcctt 420

ggaaggtgaa cacatatatt agaaaaggat acagaatana aatcaagata gtgacagtga 480

cagcccttct aacct 495

<210> 15033

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15033

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ccacaattct actgtctccg tgcgagatac atttctttat gaatacatta tttctaagat 120

cccaacagtg agaatgtgca aaaatgactt ccaaagggtg tgcccaaatt tcaggataat 180

ccaacgggta acgagtctac gatcgtaatg ttactaagac aagtttgggt atatgcggaa 240

tagagagagg ttttgggaga agaagaagac agaatgaact tgggaggagc aaaaagcata 300

gagacgtatc ctangatgta aactgaccta gtatgtctct atttatagct acgggactct 360

taagctatta tttattntat tatttctcta aaaaaataat tctattctac tttttcatca 420

gataaataac anattagaac atccatttat gtctacaaca tcatgttact ctatttat 480



tctaatacta t

491

<210> 15034

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15034

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atgttgctca acatatgtgt cgcaatctac ccttcggcgg gagggcgacg cgtgactcgc 120

gggatgcgtg ttccacgaaa ggaatacgcg cggagtcgcc accaacgttt atttgaggaa 180

aacgtcggat aaaccggata agacgcgac tacgaacttt taagtgaaag gctctggagt 240

tgtatttacg cgcggggaag gtattagcac cccacacatc cgtcacaagg gacggcaacc 300

tttaatcgaa tgtgcaaact tgacttttga ttttacgttc ccttttatgt ccttatatcc 360

tttataccct tnttatattn tattctc 387

<210> 15035

<211> 178

<212> DNA

<213> Glycine max

<400> 15035

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gaattaggat aaaatctaag tatctgaata gcatcaccac attaacaaat aatataaatg 120

tcatgttatg gagagcccga taaaaacaaa acaaattaat gaagcctaca ctaataaa 178

<210> 15036

<211> 370

<212> DNA

<213> Glycine max

<400> 15036

tcacgatcgt cacgtgttga ttcaactatt gttattcgtg gatatacgag acatcttgcc 60

acacaatgtc aggatagcca taactcgcct gtgcttcttc ttccatgcc aatgtagcac 120

agatgttgat cctgtcaagt ttgatgaact tgaaaatgac gccgtaatta tactgagcca 180

gttggagatg tattttcccc ctgctttctt tcacatcatg attcacttga ttgagcatct 240  
 ggtcagagat atcaaatggt gcggtcctgc ttattagcgg aggacgtacc tggttgaaca 300  
 atacatgaag atcttagagg gtatacaata atctatatct ccagaagcat ctattgtgag 360  
 aggacattac 370

<210> 15037  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15037

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 aatgtgatgt ctcgatcac atgtaatat tcacattntc tagaattgaa ctccactcct 180  
 tcaacaaaat cactcatttc cccatcgtaa tggataatag cctgaaaggc ttgcttttga 240  
 gtaaacatta ttttggaat ggactaatga caaaattgag attgtacttt ggtgatattt 300  
 gtgaatacac tagtagacat tataanatag atatagttga atagcagtat tatataccaa 360  
 tcaattatga aacaactgtg gacagtgtga aattcacata atactgcctc angctctaca 420  
 tcatgtttgc actgatcaat ccantgactc attggattcc taccttattt tcacctctat 480  
 g 481

<210> 15038  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15038

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 gactaactgc ctgaattctt tttgtgtctc tttctccct tttccaaaag aacaaaggac 120  
 taaccgcctg aattcttttg tgtctccctt ctcccttgct aaagaattca aaatgacaca 180  
 gtatgagaat tcttttgatt ctccctttc cctaatacaa aagtgttcaa aggactaacc 240  
 gcctgagact tcttttgtac ccctattcac aaagtatcaa aggtttaacc gcctgagatc 300

tttgtcttaa cacattggag ggtacatcct ttgtggtaca agtagagggt acatctactt 360  
 gngtttgact gataacaaga gaggttacat ctcttgtgga tcagttctag tagagggtac 420  
 a 421

<210> 15039  
 <211> 576  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15039

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 tacttaggggt tcgctttgat tttcgcgcta ttgtttgcat tctctactag cttacctctt 180  
 atatgccatt tttccggcgt ggtcctcgtg ctgtgttaaa gtgctggttt ttgaaaatgt 240  
 cgtgatgtgt agtcggaacc gagctgtttc atttctactc gaccgacgta tgaagtgttc 300  
 ttcgttaact attagctttt atggaagaag cttttcctga gaaatttgaa catacgggaag 360  
 aagttcttcc atatgattca ttatgcagaa cttcactccc aatgcatact ctatccttcg 420  
 gaaatatcta atttattctt cctcctcctc gattccccca actgtaccgg ctataatact 480  
 cctataatgc tcaactcatcg tttttctacg tctgattatg cccatatcat aacttatttc 540  
 ctaatacttc tctcgatatc tgcgcgcgcg cttttct 576

<210> 15040  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15040

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 tgtatttgtt atttacctca tacacgcat cttgtcaaaa tttacacaca tgcatactca 180  
 aagcatttcg gggtagcaaa aattgcacat gcgctcatct tggattttct aatatctata 240  
 catatacaaa cttcatgatg aatcttgact acctacgcaa taagggtgcta catttcatgc 300

tctgtgtttt tttttttttt caagtttttg ctacctaaag ccatatgcaa attcaagcat 360  
atcttccttt gctgactaan attgtattca aattagaagg gatataatttg tttggaatat 420  
gtttccttca cataacatgc aacacatcta tatatatat 459

<210> 15041  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 15041

caacgaagac agatgagaat atcagtgaat acttctcttt tatctccata ttatgcctag 60  
acttgttacc ctacaattgt tctcgaaact accactaaaa ctatccgtta ctttatataa 120  
ttcctctcat gggctatcta acctctattg ttttatgaca aattatgaga gatcacattt 180  
tctttgatac taatatgata gcatgtgcat ggtcaagaat atcatataca tcgataaaat 240  
atatgaaaga aaaataaatt gatacgattt aagaacaagt cgcttgctta tgtatcaggt 300  
aatttgaaac tgacacgcat ggaggcaaga gataacgatg aaattgttga ctagagagtg 360  
aagaacatag taagaatctc aatatcta atgtgtattata cagattcgat gcaagaaatg 420  
tgtattgata ta 432

<210> 15042  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15042

gctcatcaat ntattaggaa ggtacacca tcttaatttt cattgcctta cttccctttt 60  
cattntccta atttgtatta agtgtggttt tagtttcttt atttttgaac ttttaataaat 120  
atggctcatt tgttacttct ctttnttact taaaatcttt acaaattaga tttgattaaa 180  
ttgtttttct cagaactcat tagtcaaaat atcaaaattt tcacctaaat ataaaaagaa 240  
attcaaaatt ttctttcttc acatctta atttcacatctc ataaaattta tgggaatttt 300  
tcaacttatt tcttacttct atgcttctaa aattatttca tctctagaaa aanaagtaca 360  
cggaagacca aatntactaa atntaaaggt anacttagca gaataanac ttntcgttga 420  
cataataacc ttctacagt ttcagttctg gcttctcttt tgagtaagtc ac 472

<210> 15043  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<400> 15043

acatatgttg atcatgaatg gatcatggcc ggatagcacc cttcaccagc aaacgacatt 60  
 cagatggatg aggaagctca gcaggagcca cctcaccacc gaaacccttt tgagtctcta 120  
 atgattaaga gaatggatgc tatecttcat ctccatc 157

<210> 15044  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15044

ntaatgaact tcaacttttg cttgagggtg tatectcccc aaccactatg gtgatatttg 60  
 ctccacttaa gagccaccat antttggaat ccttgtcct gcacccacca atccatgatt 120  
 ntgaaaggct tangtcccca gtcaatgatt ntggatctca aaagaatagg gcagtgggtc 180  
 gaanaattcc tatccaacac aaactgggtg gtatcaggcc attgaaccag cccaatttca 240  
 gataagaaaa acctgtccag cttactcatg gcacttccat taggtctgaa ccaagtgaac 300  
 attctgccaa tagatctaac ctctctaaag gccataagtg aaatccaaga gttgaattca 360  
 gcaatgctag aggagttgac cacattctga gatgaactca ctctctcatt ntgatgtcag 420  
 tggagaaagg tgatgaca 438

<210> 15045  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15045

tgtgcttaac actnttcttt acttgaaaag aatcggaag atcgatatgt atgaggactt 60  
 ggaattagga taaaatctaa gtatctgaat agcatcacca cattaacaaa taatataaat 120  
 gtcattgtat ggagagcccg ataaaaacaa aacaaattaa tgaagcctac actaaaaaaaa 180

aagtcacgca tgattgcatg ttataactat tttgttataa ttatcttgat accatttacc 240  
aactgtcgct gttgtgccta acaaccaagt gtcaattagt ggctgtgaag atcaaccaca 300  
caacgaatta atgactaaga ccttgcaaca agaaaaccaa ctgaaatggt taaaaatgtg 360  
ctcattcgat cttttaatta gcgtntacaa tttccattnt cctacattat gaaatctgta 420  
ctttagaaga acaattacac caatacaaag aaaagtaa at catgctgtca 470

<210> 15046  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15046

nttcgcanag cttacggtaa aatctgggac ctagccatgg tagaagtctc catagaggcc 60  
attgcctccc togccagta ttntgatcag ccgttgaagt gcttcacctt tggggacttc 120  
cagctatcac ccatggtgga agagtttgaa gaaattctgg gatgccact gggaggaagg 180  
aagccatata tttcctctgg gttctatccc tccatgacaa gagttgccaa ggtagtga 240  
atctcagcac aagagttgga ccatgtaaag canaacagga atggngtagt cggagtacca 300  
atgaagtggg tggaggaaag ggcaaagacc ttgacaaatc aaggcgaatg ggcttctttt 360  
attgacatct tggcaacttt gatctttgga gttgcctctt tccnatatgg aagggtagt 420  
gacctacacg atgacgcttt ctgcgtttca tatggcagga tagccagtcg t 471

<210> 15047  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15047

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atcgacacgc tcaaaattta gaaccgaagg tcgcagcana ttctaacgac aataacattt 120  
cactcggatc tccgattgag tcccgtata tatcgagacg ctcgaaattt aaaaccgaag 180  
ctcgagcaa atgctaacga caataacatt tcactcggaa gtccgattga gtcccgaat 240  
atatcgagac gctcaaaatt tagaaccgaa gctcgagca aatgctaacg acaataacat 300

ttcactcgga agtccgattg agtgccgtaa tatatcgaga cgctcgaaat ttaaaaccga 360  
 tgctcgagc aaattcgaac gacaataaca tttcactcgg aagtctattg agtcgcgaat 420  
 ata 423

<210> 15048  
 <211> 590  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15048

ccaactcatc cctnacatca tcaaatttaa taattcgctt atatactann nnnnnnaag 60  
 aggggaatga acctggactg cgaacattaa actagcttgc tanagagatc aggatagata 120  
 agcgactgag ggaaccagct cctctcccggt atatgacatt caccattgta ggagcgctga 180  
 gcaccagcta cgcttccaag ccatcgaggg atgggtcattt gtgcaggagc gactacttcc 240  
 cctcacggac gactacctat actgacttat atgacgagat agatgaactg agggcgagca 300  
 ttactggtta cctncatggc caagttgact cagacactgt cctcgaatta tatgcccattg 360  
 cttgtcctac catagacggc ctgccagata tgcgactctc ggtgatgggt cagtggatcc 420  
 ctatcgatgc cgatactctc tgaacaatcc tgggatagcc ctaatgtttg aggacgctca 480  
 gcaatgcgaa actaccacat gacgaccngc tccactgggt cgatacagag ccatcaccat 540  
 atgcacttat acatgggcag atatgacaga cttccgcaaa tacagaccgc 590

<210> 15049  
 <211> 133  
 <212> DNA  
 <213> Glycine max  
 <400> 15049

tatcttttac tcgatgatga tcgttcccggt ctataacgag acgctcgaca atgaatggtg 60  
 aagctctgag ccaattcatg cgactatctc tttctactcg gatgtctgat cgatgcccggt 120  
 aatataatcga gac 133

<210> 15050  
 <211> 394  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15050

tactcagctt ctgatgtcta nggttttcta gagagagaat ggtccacgtt ccacacatgt 60  
ttgatatctc tgttgtgtga agactanccg agaatcgagc tcgaagagga tgcgacctg 120  
agagcataat atgagctctgc gagtgattgt gacgttctat aggtggagga gacatcccca 180  
ccactcgtat atcttcaatc catcatcttt ctactttcta tgttgcaaag ggagctttcc 240  
agttatggag agctaactct ctgttggttc tacctttgat gtacttgacg taaatactct 300  
gtatatctat tgcacgatgt cttgtgagtc cactgtgcta tcgaaacttc ttattacctt 360  
gctgtgcctt gatcacatag atgcatgtgt cttt 394

<210> 15051

<211> 438

<212> DNA

<213> Glycine max

<400> 15051

actcagctat gttgcaacat tataatagat ctctcagca gcataaccaa caactatctg 60  
aattattatg atctttacag caacagatac aatccaggtt ggaggaatca tccaaatttg 120  
agatgggcaa gcctccacac aacacagcct gctctgcttt ccagaatgct gctggtccaa 180  
gctagccata tgttcctact ccaatacagt cggagtcaca acaaatacta caagcaactg 240  
acgctcttcc tcaaccttcc ttaaaagagt tagtgaggca tatgaccatc cagaatatgc 300  
aattacagta agagacaaga gcctttattc agagtttgac aaatcagatg gggcatatgg 360  
ctactcaatt gatccaagct cagtcccaat atcttacaaa tattcttgac aactgtgcag 420  
aatctgaaaa tgtgagtg 438

<210> 15052

<211> 575

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15052

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aactgatata tcgaatacga actaagatac tgccgaagca gagaaggata ctgcatcact 120  
 gcgctattaa gattgtagag cgaacaaacc atcctagatg atctgctcga ccacatacta 180  
 tgcctacatg cagcaccgca acaaaatatg gacttggaga ttcatatcga ctttgtataa 240  
 tccatcatgg gtctaagact gcttaaggca tgaccttgcc tctgacttct tgacatacca 300  
 atcaaatgtg cgcatacact gagactgata ctccatacat gctccctcga atgtccaagc 360  
 tataccagcc gcaactcgaa tgacactgta ctctatcgca aaaatgaaga acgctaccat 420  
 agatatgcga cgacaatatc gcaccctgcg agccatgcat atgctttgaa atgggaacca 480  
 tacatatctg aggcgctgca cactctgaaa taatgtgcga tngngaaaagg aatatacaac 540  
 acataactta gggcggattt ctcaaaacta ttgcg 575

<210> 15053  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15053

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 tcaagcatga tccaagatat gtgatatgca tgtgctaagg ggggcattat gaggttttgt 120  
 cttattcggc atggctagga ctctagtagc catggcttaa tccaagatat tagatctgct 180  
 tgcactgata ggggtgtatt gaagttctcg gagcggcata tccatccata cctccttcct 240  
 agtcttgtaa aagntgggct tgtccacctg cttcttggtt aacatagcct caactcgaac 300  
 ttgcgttctg ataatgctca ttcgctccatc tgctgaaca tggtcgcctt gtgctgccac 360  
 tcttgcataa cgaatcgacg actccttgca tatgctattt gtgcacgtat ccaccggtgc 420  
 atcgaccact atatgcctac gtgcgggata tccaaagcta tatttctgaa acatctcctg 480  
 ataccctgaa gtggttctgt cttctctcgc atatgttgac caacgtcatc aacgnctact 540  
 gactgcgctg gacaatacgc aactcg 566

<210> 15054  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 15054

ctcctactct catgttagca tgcattntct ttctttactc actcctcacg tatggtgttt 60

tagggataaa caccataact aaacgcgccg catgggatcc ctatcgcacc agatccatat 120

ctataacgat ggggtgatcaa gaggagacgc atgaacagat gacagccgac atgtccgctc 180

tgaaagaaca tatggcctcc atgatggagg ccatgttatg catgaaacag ctcatggaga 240

ataacgcggg cactgccgcc gctgtcagtt cggcttgcca agcagacccg actctcttgg 300

aactacgcac cattcttcct catacatagt aggaccgcca agggacacac tgatgcacga 360

tggcagctct cacctgtgat acaaccgagc gggttaccct tattgattgt cgncaactat 420

taccacccat cttgcaaaat atgcgggcac attgttct 458

<210> 15055

<211> 447

<212> DNA

<213> Glycine max

<400> 15055

cttctatggg catgggtatt gctagtttgc tcgataccac ttccttctat aactaggaac 60

atagtggcat ctgctgtaac gcttgtttcg acttagtggc cctatacatg atgatatgcc 120

cgttgtggat tggcatgttg aacaagccac gctgacatg tgtgaactga ttaccacggc 180

gcgacctcca ctggactcgc tgattattat gacctgctg gatacctgat aactgtcttg 240

agatactctt tgatatttga tagctgggac agtgtggaac ggatgtacga atattgctta 300

catcatgcag ttatgtggac tttgacagat actctgtaga tacgcagaaa ttgcacaacg 360

ttgggcacct cgctaattgg ggctccaacc aggaggaatc actaagtgtg ttgacaggtc 420

acaccctgtt actcttcttc taacatc 447

<210> 15056

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15056

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actcactgac agtcatatga gtcgtcatat aaccgatata gaacatatat cctaagtgtc 120

catcctatcc gagcgtggcg atcccgtgtc ctctagcatg aggttcttga tagacatcca 180  
cctattcatc tgctcccccg aacacatgat ccagatcatc acacgatctc aacacaacaa 240  
cacacaggaa gtgagctatc acatttctag ctaatacaga atcaagacaa ttcaatatac 300  
ttcttatata gttgagatac cacttgctca agcataactc acgtaacgtt accactgtca 360  
catgtcaaaa tcaactcttca attatcaacc acattacac 399

<210> 15057  
<211> 219  
<212> DNA  
<213> Glycine max

<400> 15057

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tacctggaga tatgtcgcgg aggtcatgag accttggtga cgtcaggtgg tgtgctattg 120  
cccaaaacca agcttgacca atcccgaccc aacccgggca tagtcggtca gtgagaacct 180  
gtgatgtacc taagcaggcg agctcctcgc agtcaacag 219

<210> 15058  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15058

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gccccacatt atttccatga cacaaatgca aagatgatga cttggaaatc ttatgcaaaa 120  
ctggatcatgc atgcacctat gtggacgctc aagtgtcana tttttatggt catgtgaagc 180  
tagggctcag gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgctct 240  
tttatcaatt tatgcattta tcttagtcca tttcgtgcgt ccggcgaaat tntcacagca 300  
ttcacgcttc aggtgtagac acgttatctc ttcanaaatc gggttatgatc aatgatattt 360  
tttctcaaag aaaagttgga aatcatc 387

<210> 15059  
<211> 447  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15059

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tatgtatata tgattntgat aatgtcaaaa gaagaatcaa acaagggtca ttntgcttca 120  
agattaatac aagattgttt caacaaacaa agccttaatt caagatttct tcaagatcaa 180  
gccttgcttc acaatgaaag gtttcaagtc attcaaggca catgtaattg attaccaata 240  
catgtaatcg attaccaatg gtttgaaagt gtgtaatcga ttacacatca tatgtaatcg 300  
attaccagag actttgaatg ttgggaaatt caaattttaa tgaaggggtca caactgttca 360  
agaaaaacaa ctgtgtaatt gattacacta attctgtaat cgataccaga gaggaattta 420  
aggaatatcg caacagcaca tcttata 447

<210> 15060

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15060

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tcaccgtgat caaaaatgag aaggaggagt tgattcctac tcgggtgcag aacagttgga 120  
gggtctgcat cgactataag acgctgaacc atgttaccaa ataggaccat tttgcactgc 180  
cattcattga ccagatgctt gaacgcctgg caagattcta caggcgctct attagagaat 240  
ttagcacggc acctgattgg accgccccat ttgagcta atgtcgatgca tncaattac 299

<210> 15061

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15061

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aanagttatg accatntgaa tttctcgaaa gttccggttg atgaatttca agcgtctcga 120  
tatattatgc gcctgaatcg gatctccgag tgagaagtta tgaccattta aatttctaga 180

gtccttccgt tgggtcaattt cgagcgtctc gatatatattat ggcctgaat cggacctccg 240  
 agttaaaagt tatgaccatc tgaatttcta gagaccttcc gctgttcaat ttagagcgtc 300  
 tcgatataatt atgcgcctga atcggacctc cgagtgaaga gttatgacca tctgaattgt 360  
 tccagagctt ccattgggtga atctcgagcg tctcgatata ttatgcgcct gaatcggacc 420  
 tccgagtgca aag 433

<210> 15062  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15062

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 tacattgtct gtaacaactg ttaaagtatc cttgatacta tgtcttgagt atagagataa 120  
 taacgacaag ctcttatcag cccaatgcat gatataattt ataattacgc agtttattta 180  
 atatcacccg tgatatatag ctgattaata atattactgc taccagtgat tgctttacta 240  
 gaagactatt aagcttcata gattaataaa ggttttgaat gacgaataac aggccataag 300  
 ctgaattaat ctgttcattc ttagaanaca aaagaaggta catgaacctt acaattccac 360  
 catttggtgtg tcttcacccc ttccaatcct acattggatc tcatgacaac cttgagacat 420  
 cttacatgac attcgcacca tgtctcagaa ta 452

<210> 15063  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15063

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 atttccaatg aaagcataaa aagaaaagaa ggaaaattcc ccaatcagag agtgtgagaa 180  
 agcaaaaaaa gaatataaat gacattccca atcaatgagt gtgagaaagc aataagataa 240  
 gaaagaagtt cccaatcaaa gaatgggaga tagagaaaaa aggggagaaa agaaggaaag 300

aaagctcctg atcaaggatc gaaagaaaac agaatacatg tgcataaagg tcttttaacc 360  
agacaatatc tgaacaatac agatattgta ccaaataaac aat 403

<210> 15064  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15064

acgaatgaga aaatggngca aatgaagagg gtgagaaaga gggagaaacc catgctgtga 60  
ctgccattcc tatactgccca agttccccac aatgtcatta ctcacactat aacaaacctg 120  
ctccttacct accacccaga tatccacaga ggccatccct agatcaacca cacagactgt 180  
ctaccgcaact tccaatgacg aagaccacct ttagcacata ccanatgaac accaaciaag 240  
aggaattntg cagcataaaa gactgtatgt gtcaccccaa attccgttgt catatgctat 300  
actngatccc atatccactc aatatttcaa tg 332

<210> 15065  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15065

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ttatntactc anaaaggaga aattagaaga gaaaaattac aaattccttt ataatttaac 120  
cctaagatat actcataatt agcagttatc atccaccttc ccttaacaca aggtcagtaa 180  
gtgttgactt gccaccagtc atgtgcctag agtagccact atccaagtac catagtgagt 240  
ctcttgcttt taggaacacc tacaagacia aatcaattag agagaggtgg tacctaattg 300  
tggttaggtc taacgaggtt aatttcacaa attaattctt taggagtcca aacacattta 360  
tctctaggaa caccaaattc cctaacataa catttatagg acgcgtgtcc tctnttcttg 420  
caataatgac aagtatttac attaagctta agatgaacta tac 463

<210> 15066  
<211> 465

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15066

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ttgtttgttg cttgcttgaa tcttgatttc aggtattgta ttgtcatcat caaaaagggg 120
gagattgtag ttgcaattgg ctttgatngt ttgatgatga tcatgatgat gtgttgcaat 180
tgatgcatat gggcttttca agattaaaat tcaagacaat acttcaagat tacaagtcac 240
aacatcaaga tgatcactag aatattagga agggaattcc taattgaatt agcaaagggt 300
tggccaagtg atataaaata aaaagtgttt ttcaaagggt ntactctctg gtaatcgatt 360
accagaggat gtaatcgatt accagtggcc aaatacgttt tataacagct ataatnaatt 420
gaattcgaaa tttaaaagct gtaatcgata cacaattgtg gaatc 465
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<210> 15067  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15067

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gggatggggt taggcaaaga caacggcagc ataactagcc tgataaacgc caaaggaaat 120
cgtgggaagt atgggttagg ctataagccc actcaggcag atataaagag aagcatcgcg 180
ggaaggaaga gcggtagtca aaactcgcag ttgagacaag aaggtgaagg aagcccaccc 240
tgccacataa gtaggagctn tataagcgcg ggtctggngg acgaagggtca agtggtcgcg 300
atatacgaag atgggtgtcc gagtacattg gatttggtac gaccaagccc tcttgattta 360
cagctgggaa attggcgagt ggaagaacgc cccggcattt acgcgacgag cataatgtan 420
acctttacag ttntaaaagc tctatagt 448
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<210> 15068  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15068

taaccaanag taaaagtgat aattaaaagt acacagtgaa tattaagag tgtangatag 60  
aagaagacaa acacaagatt tatactgggt cagccacaaa tcatgcctac atccagtccc 120  
caagcaactt acgggttcttg agatttcttt caaccttgta aaatccatta caagccaaag 180  
atccacaagg gatgtacctt cccttgttct ctttgaaaaa ccaagtggat gtaccctcca 240  
cttgaactga tacacaagag atgtaccctc tcttggtcaa agtataacaa tccccaaagta 300  
gatgtaccct ctacttgtac cacanaggat gtaccctcca atgtgttggg acaaagaatt 360  
ctcaggcggg tagtccttcg aatctttgta aaggggaaac aaaatatatc tcaggcgggt 420  
agtcct 426

<210> 15069

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15069

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aagattaaag gcattctata acaccctcc cttcaagtat gaaaccattg atcaggttag 120  
aatgattaac aaagtgtacc ctctaaccga acatccaaat tntgttgggt aaaatatgtt 180  
ttcgggtacca aaaaatattg tgaaattcaa gcttagttag ttataaaaat ttaatagttt 240  
agtcctaaca tttgagggca agcaaagttg tgcttgatta ctagtgggtc atgcgtttga 300  
atctagaaat acgtaaggat aagactgtta aaaatattcg atctatgtta aaatgtaagg 360  
actaaaaact tactatatat aggaactaaa tataacattn tgaaatattt tgtgggacaa 420  
acatatctta tccaagaatn tatttcatgc acc 453

<210> 15070

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15070

tgtagagcat tgattngata ctgcttacct cataatgagg ctcatgatgt ttacaatgga 60



atgatcgttt gctaccctgc agtgagacac acacggatac acacacacga cacacgtagg 120  
agactaacgc tcgcggactc agacacatac agcaactcat acacacacac tcacgcagag 180  
tgacgcacac attaagacat agacaaagac tccaacacag tgagcgacag acacactcag 240  
aggtccacac gcaatgacac acacactgag tgacaaacac acagatacgc gtacacactc 300  
acacacatgg acagacacac aactcgcac acgcataaag agacatacac tcacacacac 360  
atagggagac agacacatag acacacgcag atgaagagac aaacacagac tcacgcactc 420  
acacacagag tcacacacac ataatgagac ag 452

<210> 15071  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15071

tgggttggat gttgaattct ggttgttcct ggtgcggata tgattgtaca gcgggtgaac 60  
caggggctga agtctctttt ggtgaggtag ccatggaaaa gcagagcggt tggaatgggt 120  
tagcaaattt ctgagagctg ttgggggatg ctgaatacga gattatcacg aatatataag 180  
tttgaatgaa gaatgtaaaa ggccgtgtga agcaacggtc gaatttgctt tggttcagta 240  
gtgaacgtgc tattaatggt aggtgattcg tttgggcacg tcagatatca gtagttgcta 300  
caattcctct agcagacaaa tgcccagctt gcccctcagt tattcaaact gttntgcac 360  
caatgccttt gtaaaatata tgctatttgt tctcagtggt tcacatgctc cagtgtgata 420  
actctatcat caacaagctc tcttgatata gtgatgtctg atgtca 466

<210> 15072  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15072

tcttcagtta tgtcaacata gtctcttttc aacatcattt aattggtgta ctgatacatt 60  
ctactaatat atggagttgg tcaattgttt gcctgaggat gacaaatact agaccataac 120  
aatgttagag ccggtaaagg acaatgggtc tttaaataag catgttatac atgcacaaac 180

aatcttacgt tattataaca caaatgattg catacattaa aaataggatt atcttgaatc 240  
 tacctgaaca aaatgaatgt catagatgtg accaatgcat antttgcgaa gcacagaaga 300  
 atctgttggg ggttgacttc taagaggaaa gaacgtcatg cttntgttta gagacaacga 360  
 tacaaggatt acattatacc ttgatcaatg acatatctca 400

<210> 15073  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15073

aattatgaga cgaattcgag accagcttaa ctttcatggg actcgacaat ttctctcat 60  
 ataattacga tttttctatc ttatatnta taagtacaca gtttatgttg gagataat 120  
 ctattgtgaa tttattatat caaaagtaca aaaataat 180  
 ttctgtttct tcgactcatg taactaatac acatgacaga aaaacataat cttaccaag 240  
 accttaatat gttgctatct acaactagat taaagcatga tgacaaagtg ttgctagcat 300  
 attatgtggg tttgaaaatt anaataatga ttgaagtga catataaata ggaagagata 360  
 agaaggttca tgggatccat anaatagcga tcgttttcaa attctctatc tccatgctca 420  
 aaaagcta atggcaactag atgacatttg gcagaacaac gacacatgg 469

<210> 15074  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15074

aagtttggtt aanaataagt ttaatgtaac ttgatttata tctggattct gtttacgttc 60  
 aacaggataa caagagagga atgattttgg gataaatttc agtttgattg tataaatcac 120  
 gttcaactca actcaaaaga atagcatgtt aaacaagcgg ngcagttatt atgacgggcg 180  
 gatcttanaa aatgagatat taaaaacaac cattttcacg gaattacttt attgttggtta 240  
 acagattaga cagggataaa actaattatg agataactaat ttgaataatt tctagtagaa 300  
 aatgtcatag actaaaatat taaatacaga taatgataat atacatatgg attntgaaag 360

ataaat

366

<210> 15075

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15075

tgaggagggt aaatgagaaa agatacattt ataattgggtg cctgctatta gtagataatg 60

ctaccaaggc ttgtgggttaa actaatataa tcaactgtgtg ctttttcttt tctttaagct 120

tctcgtgtgt agttactgca tatttatntt aatttatgag aaatcttcat gttaaaacaa 180

gactaactta gttcatgcaa gagaagattt ttcatagagt attcagctcc agaagcagag 240

cctacgttnt ttataatatt aattagagaa aaaaaaattg aacttttgaa aagcagtttc 300

ttataagaca cttgggtttac ttataataat tatctttcaa agtataagag agaatttggtg 360

cagagaaaac catattcagt aatcagtaga aagtataaac tactatcaag aaaaatagtg 420

cacattcgga aacacgaagt ataagaaaag ttcanattta gaatatcaca tatccattta 480

ttc 483

<210> 15076

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15076

tgaaaaattg aaaccctgaa acccgtcgaa natgcgacac tactagatag taagactcan 60

cttagttgac actgatccat gataatgaac cgaagtgttt aacattatta ttcaacaatt 120

gctactaata ctatctgaag cctccccgtt gatgtcatcc gaatcatgct actaaaacta 180

taagaactac caaaactaag gtcaacatgt caatactcta caactaggca aaccaattta 240

cctttatttg tacagtgtat taacaatcct gtgagctctc atccaaattt cctgaatgat 300

gagtgaacta gctcttggtga ttagtcattt atctacaaca ggtacaacag tgaaaaccat 360

caatataaga taaacgccat gccaaaaaag ataatgagat tacgacccaa tgttgtacat 420

atcttcacaa tcattaagat acaggatcca tatatcatgg atgacacgtc tcactaaaca 480

atgatcatca caaacttgat accgctcgac cn

512

<210> 15077  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 15077

ctgctgcgag catctactgc agacctactc aaccttagca gtcgaatctt tcacgacata 60  
tcattgatga cctctccagt aacaggtacc atcccgggtg gacgaatcat accaacctta 120  
tatggtcgca gacttcacat ctatctctac gtctacagca gccttatctt cagaatgctg 180  
gtggcccaat aagaccatac gttccttcac cgactagcat ctacaacatc tcttgagtcc 240  
ataacagcaa cagtgcgccc ctgcacctt ccttgagaac ttgggtgcaat gactatgcaa 300  
ctgctgttca cggaaccaat ccttatcaga cttactacta gatggcaatt ggatccagct 360  
aataaactg tcccaatctg cagatacttt taactgccga tcctgaatgg ataccatact 420  
ttgtcagaag catgcatgac tct 443

<210> 15078  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15078

ggcctcanag agatctagga aggacgccgc ggccgcaggg tctagtgtg ctctgagtt 60  
cgatagccat cgtttcagga gcgctgagca ccagcagcgt ttcgaagcca tcaagggatg 120  
gtccttccat cgagagagac gcgtccaact catggacgac gagtacacgg atttctagga 180  
ggagatagct cgccggcggtt ggacgtcgct ggtcactctc atggccaagt ttgatccaga 240  
tatagtctc gagttttacg ccaatgcttg gcctacagag gatggcgtag gggacctccg 300  
gtcgtgggtg agggggcagt ggattccttt cgatgcagac gccctcagtc agttcctgtg 360  
atatccgcta gtattggagg agggccaaga gtgcgaatac ggtagagga ggaaccgggc 420  
cgatggattt gatgaggagg ccatcgctca gctgctatgc ataccatgtc aa 472

<210> 15079  
<211> 476

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15079

tgtacgatta taagaaacat cttcttcgac cttggtgac cttgactcta tctcatcgaa 60  
tcgcatgtcc acttgtaact ccagagcatc aaacctttca ccaacaaagg tttgaagacc 120  
atcgaacctg tccaaaacct tttgaagaag agaggaatct tcttcacat gtaaagtgtcc 180  
ttcttcatca atgggttgag cacccttttt aacccaagag ccatcatgct ctttacggta 240  
accaaaggat gcaatcacag tagcaccgat taagaaggat ctcttgattg aaacataagg 300  
ttcataatca agagggatgt tatagtgttt atggaagaga gtgactaggt gtggatatgg 360  
caatggagca tttaatccca atgccttatg catgcgatat tggactaagt gtgccaatc 420  
aatntgtcgg cctttatgaa aagcccat tacaataaga tcttcttcag aaacct 476

<210> 15080  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15080

ctgtanggt aaagtctcac gaatgtcacg tgttgatgca ataattgtta ttcgtggcta 60  
tacaagacat cttgccagac aaagtcaggt tagccataac tcgctgtgc tttgtcttcc 120  
atgccatatg tagcanagtc gttgatccta tcatgtttga tgagctggaa aatgaggctg 180  
caattatact gtgccagttg gagatgtatt ttccccctac cttctttgac atcatgattc 240  
acttgattat gcatctcgtc agagaaatca aatgttatgg tcctgtttat ttgcagtgga 300  
tgtccccagt tgagcgatac atgaagattt taaaatgata tgaatatcta tatatccaga 360  
acatctattg ttgagaggac attgcagaag ngccattgaa ttctgtcaga atacatcgag 420  
aagctaaacc tgttggcctt ctaagtctca gcatgatg 458

<210> 15081  
<211> 271  
<212> DNA  
<213> Glycine max

<400> 15081

aacacaactt gagaatagag ctgaccatgc tgctgctgct acagaatatg gaataagtgt 60  
 tgctcagtcc ctgacagaga aactatctac agtttctgga ctagatgctg gtgtatgaag 120  
 tgggtgtgaag tccacagttt ctggaactca tactagtagt atgggtgtgg aacaggacaa 180  
 ggtggtttct gagaatgact atttgggtgga catactgacg cgtggcgatg aagacaggtc 240  
 tctctctgag gtgatatcag atactctgca c 271

<210> 15082  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15082

atntgctgca tacattcctt ttctggaggg cgaattctct gnctactttt tcaatttata 60  
 cccacnanac atctcaaccg gctcgagcta gaggcggtct tgcacattgg atgcgcggaa 120  
 gacaggcttt gtggtagact tagggatggc cactgaggat aactgcccgg ggggaaggga 180  
 tactttctca atagtggcgc gcaccctatt ttacgcgaga gccctcatgc tctttaccgt 240  
 gacctgtgga tgctaacaca tgagctccca ctctaaagga tctctcgacc gtcacacaac 300  
 gctcataact cagagacatg tcatactgtt cacggtaaac agttactacc cgcggtattc 360  
 gctcaggagc atgcatocca atgactctgc atgccatccg ccttattgcg cccgcacctt 420  
 cctgcttctc tantcgccct ttacataaaa tctcctctca acctgtcaca gcctcaaatt 480  
 tccc 484

<210> 15083  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15083

cacanaatct aggtatccaa aaccnctcaa tttaatggat tntcaagggt tgagaagtga 60  
 aattgagaat gngntaaatt tggagcaaac tctcacctca cacaagtcta taacatcaat 120  
 ttaaacttgt tcaaactgga ttacaccta aaattccacc gaacaaaaat ttgactcctc 180  
 aacaccaat ttaccctag aaatggctct ttgttcaact tggtcatttg gttttctctc 240

tagcacagcc caaactttct cataagtcct aaatgacatt tcaagctagg attaactcac 300  
 tttaacctcc aaataccact aaacccagat ttggccttcc aactctcaaa acctcaactct 360  
 ttntccactc ataacaccat attctcactn ttaaacttag gttaactota cccttcatct 420  
 ctaacagtnn tccataagca atttcagcac ataaacatca caagcatcat cat 473

<210> 15084  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 15084

acactgagaa tgtttctcac tatattaatg cttatcccta tgactatatt atttattccg 60  
 agaaagaatg gtcaacttgc aaaattccaa agtgagtttg ctactattgc aaaatatttg 120  
 tgaaatattg gctaaatcta ttataaaac tgtcttaatt cttttatgca gacctgctat 180  
 gtcaaaacac ttgagcattt gtgatcgctg tgttgacga tttgatcatc actgtggatg 240  
 gatggttagt aatctttgaa attcctcctc tttatttgtg gtggtctcat ttaatatata 300  
 tcatgtgtgt gtctggagat ctactaaaag ttgctttact cacagaacaa ctgcataagg 360  
 gagaaaaaca ccagtatatt catggctttt ctattatggg gagttctata ttcttacatg 420  
 agtatcattt catggaatct 440

<210> 15085  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15085

ntcaccagat catataagat aaatgcattc aggcaatctg cagacatatt ctcccatagc 60  
 tcaaattctc cgcttatata ttcaaccttt ccatcactgg cacgtggagt gaatcttctt 120  
 ccatggtgca atattaaagt tatattgtca ttcattctac acaatcagaa accacaaaca 180  
 ttgtcatata ttaggaaata aaaaacctaa ctcanactca aacataggca catcacacaa 240  
 caacatgcaa tgtcatctat aaaaatagag catcatanac gaaaataata aaggaccata 300  
 aacctcccta caaagcacga agacaatgca tatgaaaccc cttgaacata taaaacccca 360

tatgaatcca ccaaaacaat gcatatgata tgaacgcata ataaccacca acctgactgc 420  
 caagcgcgaa cactcacaat caccgacaaa gagaatatag 460

<210> 15086  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15086

ntgacaagac agtacacact gctgtcttct tcaacanaat anaatagggt tatctactct 60  
 aaagatacat ctaataatac ccataattat aataattagg attaggtaaa ataaaataaa 120  
 taacattatt aggtgctctt gaactattat atttcgatta gttttcacgt gatataataat 180  
 taagagttat tgattctttc tttagtaact taaaaaattt cttctgtaaa aaaataactt 240  
 aaatntttta aatgtgtcat ataaaaagat tgattcatat catgaatacg tgggtggata 300  
 aagatcacct aatagatttt tctattcaag agtagtgaga aaatttaatt taagtgcact 360  
 ataacgtctt agttataagt tntgtactta attatccac canaaatgaa tcttattttc 420  
 caaagtgagt attattcaac atatgattaa gggatatatgt gagtgaatat ttataaaaaa 480  
 gtaactttga ctcagtgagt ttg 503

<210> 15087  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15087

tgagttcatc ttgtttaact tatctgtaac ctatcgttgt ttgttggtg aaattttcct 60  
 taagcagttt ttaactgtat taatttagta tttaataata taatttaata atagataata 120  
 atctatagga ctaattatgt ttttggttat tatacttttt tgcaaattaa acgtttagtt 180  
 tccaaaggaa atttataaca tttttgtcc tatatttttc ctctatgaat tatttttagtt 240  
 ttattgtcaa ataaaactta taaattaata acattaaaat tatattaaca atctaatac 300  
 ttatcacgtc tttaacgagt gtgatgaaac attcacatgt aatttatatt tgagcaaaat 360  
 atattgttaa ttcccaatta atcgatgttt tattttttaag tctctaaaca aaaatttatc 420



taattt 426

<210> 15088  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 15088

cgctgtagtg aaatactggg acattcggaa ggccagaagc gttgtgtagt cctaagtcac 60  
gtgggtagtg ctgcagaata tagagatttg cggaccctct ttatgggttg gtcagtgcaa 120  
ctaatttagc tgctaggggt gccaatattg ctgctggaag caattttgac gcatgcataa 180  
tggagcgtca ttggtgtttg atattattag gcatgttacc tctcattcta gcaaattgga 240  
gcgtaatgcc tctatttata cttatatagg ggtggggcat tttgggtaat gtattcgact 300  
tatagcagtg ctttataacc ttcttagtcg tggatgtcat attgtgggtca tagtaggtat 360  
acaattttta tttttttatt cacatatctg caaaaaaatc atgcaataac tgaacttagg 420  
tcaaag 426

<210> 15089  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15089

tgactcatac canacatgac aagtntagca tgctntcatc atattttcttc acaaataact 60  
atcataaggc ataaacctag taaaactacc catcatatct cccaaaaccc aataccacg 120  
aaaatttatg tgagaaaaag tctacccaaa cctgaaatgt gaagtccac aatggagagg 180  
tgcgcttcac gactccgaaa atggcttttt ttgcggaatt ggagcaaaaa tgggtgtacaa 240  
agggttgagc tttgatggag cttcaatggt gaggaagaag aaaggaatag caacatgaga 300  
aagagagggg gaanagcttc tgaatnntat tttttttgtg gctgagtgag gagagagaga 360  
acgtggcttg tgtttaaaag gcttctctct tttttttttt ttaacaaaag atgtgccaca 420  
tgtcttcttt tgagtggagc anaaagggtt catttttttt ttcttgatgt gactcact 480  
cagtcac 487

<210> 15090  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15090

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nttcactcgg agatctgatt caggcgcata atatatcgag acgcttgata atgaacaacg 60
gaagctctcg agaaattcca atggtcatta cctttaactc ggaggtctga tttaggcgca 120
taatatatca agacngctcg aaatgaacaa cggaagctct ctagaaattc aaatgggcat 180
aacttttcac tccgagggtc gattcaagtg catgatatat ccagacgctc gaaattgaac 240
aatagaagct ctcgagaaat tcaaattggc ataaccttta actcggagggt ccgatttagg 300
cgcataatat atcgagacgc tcgatattta acaatggaag ctcttgngca attccaatgg 360
tcataactnt taactcggac gtccgattcg agtgcanaat atatcgagac gatcgaaatt 420
gaataatgga agctattgag caattcatat gatcataact nttcacttgg aggtccgatn 480
gaggcgcata atatatcg 498
```

<210> 15091  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15091

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gaggtacaag ccctataggc agagcttgaa agagcccggg tagtcgaaga gaagttcaag 60
tccatagcca tcatagtttg aaaagagtat gatgaactaa gggacgtcaa tatggccacc 120
gctgaagcct tggaatgaga aaccaagaag gcccgaaagg aagaacacga ccaaaacaag 180
ttttgagggg ctttataggg cagcaatagt gagctcaagc tccgaagagg tgaaaggaat 240
catcacgggt caaaggcatg atctggaagg acgagctana ggcttgctt aggtcgaaaa 300
gaaatttgtc ccaacagtta aagcgagact gaagggaata tgtgggcat catcgataag 360
tgcaaagaga agctaaatct agcggcgact cagagcaaaa ggctagagga tgagtacgcc 420
aagatatc 428
```

<210> 15092  
 <211> 450

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15092

acactatgat actcagcttt agccnatgga cttaccttga' attaatcct ttgatagccc 60  
 ttttgagcct tgtttccctt tccttgatct gaagctcact acaagcctta agtgataaac 120  
 catgatatta ccatatcctt aaggaattnt ggagcttttg aattgttttg ggaataagtg 180  
 tnggggggtat ttgggttcatt ggacaacttg ttatgttggc tatgcttcat gatgtatttt 240  
 gggccatact tgatgaacat tgtatatttg ttaaatgttg gacatgctga atgaaatgtt 300  
 gtttctcata ggctaaagag tacataacaa aaataaaatt cgaataaaga aaaagacaag 360  
 cagtaaagtt gagtgactaa gatcttatat ggcacaagaa tgatgaaact cttgggttcta 420  
 ctcttcatgc ttaattatta tctttacttc 450

<210> 15093  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15093

tactcagctt aggttgctca ttgactccag attgctgcat ataaggacaa agatctgaat 60  
 ggtgatctat agaagaacat agaccacaga ctcttgcaac aggtgtagat ttctgattca 120  
 tggcaagctg agttactagg ttgaccaagg catcaagtn tctttcaagc tttgtattat 180  
 cagtagatga agatgaatcc atggccacct catggactcc tctaagaaca ataatatcat 240  
 ttcttgcat gaattcgtgg gagttggaag ccattcttctc aatcaaattc ctagcctcag 300  
 caggggtcat atcaccaaga gctccaccac tggcagcatc aatcatactc ctctccatgt 360  
 tgctaagtcc ctcatagaaa tattgaagaa g 391

<210> 15094  
 <211> 895  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15094

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aactnnntnn ncncaacgaa cggcagtagn aganccggtg gacgnncccc ntttggtan 180
ntacngcctn ctatcgacat nncnccanca nncggnnancn ncanannacn cncgcgcacc 240
gnccgaccgt ganncacngc angtnaanac gntgcgccac tcntacatng ttcnctacat 300
cgtcgtctta ttatgtcata tgtatagtta tagtgacaac ctctaactca nagcaacgcg 360
cgggggacga atactcgcgc tgacttgact gatgacgcac agcacatgca atatatctcg 420
caacactcct acaacagagt tatgacagca acacgtccac actgatactc agagatgaac 480
gcgatgatacc gccgtgagcg actctctcgt canaagacac ataccgccga cactcgtcga 540
cgctggctat cgccgctaca gtcgcgccgc caccacaacg acggtacacg acgagaacga 600
ccgctcactn agccgtcata ttgaagtcga gactacaagc cgataacacc gagcacgacg 660
cgatcggcgg cangactgaa tacaacaatc tctaagtatc atacaanata ttctcaccg 720
cagtcagcgc actgcgcgca cagtgacag atgtcttatg atatcggcgg agcgccactc 780
gctctaattg atcgtcgcaa cgcggtcaa gcaagatgca cataccggcg tcgcgcgcat 840
cgaggcantc acgataccgc gtcacagact acccgatcac gagcgagaa atgcg 895

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<210>      15095
<211>      676
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      15095

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aaaantnnnc nnacnnnncc acccccat gatgagagttt gactgccttt gagaggccac 120
gtgatacaca acctananac anancantg acacacatca atacagatca cactctcagt 180
cgaccacncc catcttttct tatctatat tagctaattc tagcactgac tatcgcta 240
attacgcact ggctgcactc aantcagcat acaccacgat ctgaactctc acgatttatc 300
acatctgata catcattgca ctcatatcaa cgacnnttgt acattcanag gactacnccg 360
tctacacggc acctccgaga gctaggtact ctacagcgcg caatatcact atagagcaag 420
taatgtcaca cactggagat agtgcggtgc catcgcatct gcgcgagacg atcgattgat 480

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tgaatcggta tatactacga caacatgatc ttagtatgaa gtgaacgcgc gactcctaata 540  
agaatacatg tgtgtcactg caccgtgacg taaaggaata cgtcgatgaa gatcgtgatg 600  
tagacaagaa tatacagat taggacagcg ctgtatacgt cacatagtagc ataaggacgt 660  
gaatcgtgcc ttctcg 676

<210> 15096  
<211> 593  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15096

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acncngaacc cgggaaacac tagaggaacc tgcaagctgc agcaatcact cgctgtataa 180  
catttatcaa tacactacac taaaggagaa caagggataa atacatcaga aagatcatac 240  
acgacttggg cttggaggga tatctatgaa cataacatgg aaggggacat aaaaagcttt 300  
taagattggc aaaaatgaac acttgggtctc tcaatatact ccaattttga ttcggacgac 360  
cgaaaacaga ttcgaaataa gagtccatta caagcgaaat agcataagtg gctacactcc 420  
caatcaacgg tgacggatac tcaaaagatt aggacacgag acatgtcaca tagagagcga 480  
gaatgtacgc attaagcgta aataagacag ctgacgctat caggacaggc gaatgcacac 540  
gcataacgaa actgaaaacg aatgcaagac atgaacggca cacgtagcca ccg 593

<210> 15097  
<211> 73  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15097

ccccccctcc ctcttcaaaa acctataact aaccannccc cagtgttgac tgacctcacc 60  
ccacaccccc ttt 73

<210> 15098  
<211> 500

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15098

gcagagtacc cgtgaagaca ttgatacac ggtgaaacac ctcgtaccgc ggatcctctg 60  
agtcacctgc agcatgcaaa cagagctcag ttttatagct tctatgttaa ctgttcaaag 120  
tcgcgaatat aacctcggat ccctgtcgat acaaaactac taagaaatcc atgcaagcat 180  
attacttcct tgatgttaca ctgcacgagt tcctacatgc tactcttcat ttcaccaggg 240  
aaaatttgag catatttctg actctattac tatacccaca caaatcattt tcacgactta 300  
tctcggtaac ctgattcaaa tccatgatca ggcctaccat tacattccag aattccaaag 360  
cttcaattct ctgacgacgc tgtgctaacc ttactcttga atgtctaaat atgctaaata 420  
taatgccatc ttctactgca tgccacaaaa catgctttca ttttggcatc ttaacatcct 480  
cggcggaact agacaatttn 500

<210> 15099  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15099

ccccccact ctctgtcatg ttaggtcact tctataanna ncncccggcg gtgcctgaac 60  
tgtagcccan acgagnacct tcgtgccagc acgcttttat ttgggatggc cctgctattt 120  
ttattttggg cacaagcggc ttgocactc ctcttagaaa aatgacacta ttttctacgg 180  
atcacaactt tactgaagga attgagcggg ctaaaaacct ttctgaagct gataaattca 240  
aacatttgga cactgctagc aggtaaccta ttcttactat accttataat aaatcataaa 300  
actcatgttt tctattctag gattttatatt ataatacctt ttaccacggg cgacacgcgc 360  
gcg 363

<210> 15100  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15100

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aacataaaga aaagatagat gattcctcag aaatttccac cgccaccatt gtgatgacct 120  
ttgaatagtc taaatgccta aagacaactt taagcgtgta ccctctgata atcgaaggaa 180  
antctcgtaa aagaaagtat cctaattcta attggaaaga cacttcagaa gttgaaaaat 240  
caactgagag ggcttacaaa tgagtctact agactcaata aacatcatga ttggcctaata 300  
taggaaaggt gtaatctatt ggaagaatgc cacaagttca tagaattatg aaacttcgag 360  
gcaagtgaat aactattgan ggatgtgaag attaacaaag ccaaaatctc aatgataact 420  
tgacatatga ggtctcaaaa gaactcagat cttcact 457

<210> 15101

<211> 174

<212> DNA

<213> Glycine max

<400> 15101

atactgcagt tgtaccactt tcatcatcat agcaatagac cctaccaatc ctatggcctg 60  
gtctatgcct accacaccac aagcactatt acctaattat ttaataagtt gctgattcac 120  
ttctgctagg ttaagagaaa gcagttaaag ttaaattgtg gtaattgaaa caac 174

<210> 15102

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15102

agctntataa tggactttct cttcattgct actatcatca gtaatagtaa cagacttctg 60  
tttcaatata acaagatcaa gatccaaaac actgagggtg aattggactt actcattcca 120  
gtcagagaag ttaagcccat taaaattggc acaaatgata cataagaatt cagtgaattg 180  
ggaacatgta ttgcataata acattcacat aagtgttttg agacataaaa tacatgtcat 240  
acatatgact tattcagata atgatcaatg tatattgatg ctctgctttg ggtgatacag 300  
ttgcagaagc aagcttcatg atgaatcaag a 331

<210> 15103  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15103

caagtgttgt tggggtgct tctgcaatgt tgccatttgg acttgcttcn nggtntgcat 60  
 gtgaggtcta acatgtcatg tgagggaagc ctgtatattt ggcaactctg tccttttcta 120  
 acagttggag aatgcattga agacaaactt tatgttttgt ctgttaatgc agttgcgtgt 180  
 agtgcacacg tattactctt gcacacgtgt cactcgtgga gtgggcacgt actanatacg 240  
 tgttgcgtgg gatatgaagt tgtcatgtgg tctcctcttg ccaatgacca cgcacacctc 300  
 gaatttctat cttctttctc tcgaagtata agatctccct cacctacaca gc 352

<210> 15104  
 <211> 74  
 <212> DNA  
 <213> Glycine max

<400> 15104

aaatattaca cgccgcctc gcactttatc gagtactgtg gtattcatta acaatctagc 60  
 gacatggaaa cccg 74

<210> 15105  
 <211> 610  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15105

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 nnnnacncnc cnnncncccc ccncaccatg acgcnncttt gancctttgt atacgtgtga 120  
 ttagcacaca tanaatcaca cagcngacgg ctggcagtat gacntataaa gagtacnngg 180  
 aactgtttct ccaatatttc tctatataga accacattac acttcactgc ccgtctatca 240  
 ccactacgga tttggaaacc cttgcgttcc catctaatac ccttgagata gttcactatc 300  
 gttagtgtag taatccta atgcccgcac gttcccctac cacattttga cagcctgata 360  
 gcgaatgacg cctctctgaa ttatctactt cgccttgagc gggtttccac cgctgatgcg 420



gacattcagt cgatctgctc tgtagcgcat aatataacat acccgaactc acctactccg 480  
 ctgatgcaac ttcttgctc gatggaaatg aaatctatat tgatacaaac taattgttaa 540  
 aagtaccgtg tactaactga ttaatttacc gcataaatat aattgtactt gcttagtata 600  
 cagtatccccg 610

<210> 15106  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 15106

actcgccccg tccttaagca ctgagctgca ctttttttct atagcaatga ttgggcatca 60  
 tgctcttat gacttacatc atttagccta ctgtgaagtg aacctctctc ttaattctgt 120  
 cataaggtat gcttaagctc cacctgcagc tcatatcttt ctcattactg gccttctaaa 180  
 aatggaaaag ctgtcaaatt gggggaggca cgaacaattt taatcctcca tatcattagc 240  
 ttctcaaagt gattgaccta ttcaatctca ataaagtcaa tccaatccaa tgccgacacc 300  
 tacattgctt gatgtaaagc caaatgtaga agtgtccc 338

<210> 15107  
 <211> 588  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15107

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 nnnnnnnnnn cnnccccagc gacgngttgg gcccttgaac ccctagacac anccaccnca 120  
 caancnanna anacacncac cngcgacca gagttaaaaa cgagaccttt accattttgt 180  
 tcttcgtcac acacccccaa agacaacgcc aaggatacca ctatcagtct tctaatacaa 240  
 ctcttgcatc gtatgtgcc catctcaagc agagcgacta gcttgggttg ccatcctctg 300  
 tgtgcaaata taccacacac tggcaacagg cataaagttc tctatatagg cgcacatct 360  
 actgcgtaac acaactgact gaattcgga cagacataa ttaatacaac gccggtgcta 420  
 ctgaggtact atctacagac gttcaagaca gagatcgtgt cttctaactt tatcgcgcac 480

gattaacaaa cgcccatgcg gcgtagaagc gaccaagtac cttcatttac ctcagaacgg 540  
aacacatagg ataagagcgc acttctcgag atatagatga tctccccg 588

<210> 15108  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 15108

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aagcttctaa aacaaatcgt ctcgacgcag tttttcaagg gatcttgtca tagaaatata 120  
taaatgaagc tatcctggcg acacatttaa gcatgtggaa cacttggtgt aactctaatt 180  
aatgagaggc gtgagagact ctctttagag atcacctact ctcccgcttt cactacatca 240  
attcctagac gacccctcta gctcttactc tgtgtctgta cttacctaca taagagagtc 300  
ctcgtctatc tacatatcac ggcactccct tagtggagaa gctccttctt aattgtctct 360  
ccgctaacgg attgccctta cttcacggtt tgtttctatc tcccgtgga ttccatggag 420  
gaaaataact ctgacgac 438

<210> 15109  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15109

ctctcttgct ctacggaaca tgagtaatac acaaacaacc aaatatctta tgaaatntca 60  
gagatggttt gtaaccatac taaacctcaa acggtgtttg atccttcaat gctctggtgg 120  
gaagtctatt ctgataaata acaacagtac ttgctgcctc tgcccataat ttctatggca 180  
attcttctca tcaacatgca tcttgcatct ccaaataat ctattatcct ctactaacc 240  
atgttgtgtg gggataaaac tgtaagttat gttcatgcct atcctacaaa ttgataatta 300  
tcaatgtgtc tcgggccttg caacctaaat tgatctgaac cgttcatctc 350

<210> 15110  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 15110

agcttcctca gagccttatt ctatgatgac aaacatttgg aaagttagtc tacacgataa 60  
tgcttacttt atcacaaaaa tgatatgcta atcttttaoga tataaaaacga actcatgcac 120  
acattaatgt agtacattta tgaacatgcy catgtgtaaa atatcctact atatatgtca 180  
acatacgagg acattcatca cattctagtt accacacata tatacatctg tgaaaagaat 240  
acacatttcc atgctcaatg cattgagcaa aaattacacc tattcacata ctatatatat 300  
tgctatcaca aactacctac acatatgtga agatgtatca taaaatttct gtatgtactc 360  
catatattat atcacactga aagtaatacg tatg 394

<210> 15111

<211> 259

<212> DNA

<213> Glycine max

<400> 15111

agcttaattg ataaatgtca tactgctgat cattcctttt gtgtttcatc acacgcaatt 60  
tgatcaattt atactgtgta ataattttgg cactgggtatc gatacatcct ctgtaatcga 120  
taccagagaa taatctcttg acaagacttt taatttaagt tcttggcaaa ccttttgttc 180  
atcattagaa ttccttctat tatatccctt ctaaactcta aacatctgat atcatctgat 240  
tcttaattct tgctgataa 259

<210> 15112

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15112

agcttctaca ttcaatttcg agcttttcga tatattacgg gactcaatcg gacatccgag 60  
taaaaagtta ttgtagtttg aatntgctca aggcttcagt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttggtt gaatntgctc 180  
agagcttctg tattccattt cgagcatctc gatatattac gggactcaat cagacatccg 240  
agtacaaagt tattgtagtt tgaatttgct caaggcttcg gtattccatt tcgagcgtct 300

cgatgaatta cgggactcaa tcagacatcc gagtcaaaag ttattggtcg ttgaatttgc 360  
tcagagcttc tacattcaat ctcgagcttg tcgatatatt acgggactca atcagac 417

<210> 15113  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15113

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tctaagcaaa ttcaaacgac aaaanacttt tactcggatg tctgattgag tcccgtaata 120  
tatcgaaaag ctcgaaatgtg aatgtagaag ctctgagcat attcaaacga caataactnt 180  
ttactcggat gtctgattga gtcccgtaat atatcgagat gctcgaaatg gaataccgaa 240  
gctctgacaa atncaaacia taataacttt ttactcggat gtccgattga gtcccgtaat 300  
atatc 305

<210> 15114  
<211> 308  
<212> DNA  
<213> Glycine max  
<400> 15114

agctttaata agttattcca aaacaaaatc aaccaagtc tcaaccaatc catatcttta 60  
aaccaagatc tcattttattc aacttcattc tcttcttctt cttcttcttt ttttatttga 120  
acgtgaacaa tagcaattga aagcatttga aaaataaagc aacaattagg caatatatgt 180  
atatacatca agcatggcca acaacaacat atcatccaat gaaacatacc ccccttcaca 240  
cttattccca aaacaattcc aaagcttcca aattccttaa aggtagggtg aaatcatggg 300  
ttttcacc 308

<210> 15115  
<211> 213  
<212> DNA  
<213> Glycine max  
<400> 15115

acaggctcaa tttccatagc tttatgtgat tatagataat ctggccctat ggctctttag 60

acaactatatt gtgaccgatg ccgagaggag cctttctataa tatctactca caggtatata 120  
 cataactcccc tgaatcacct ctcttttgtg tagcctaaaa atgacatgat gttaactggg 180  
 agacctccca tttgatttca cctatcacct tca 213

<210> 15116  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15116

aggtggtctt gaaaccctga tacctttgac accccaanct aaaaactaca accacttaat 60  
 acgaaatatt taggcttaac acgtatacca cggacatccg gactgggggtt gcttgtgcac 120  
 aacacacccc tgtaccccca atcgatatac tcagcccttc ctcggtacca gctgacaccc 180  
 ctcttgccac tgtctctttg gcatctccg tctacaagga tacacgagcc gagcctactg 240  
 cttggaaaaa ctctgccaac gtacgaatta gccacaaacc ctagtacttc caccagctgc 300  
 actaacctcg ctacatccga gacgtctaac acatgttcga cgactactcg tcatgctcta 360  
 ggaagtatta cttaccttgt tgctacactg gacgcctggt ccacatc 407

<210> 15117  
 <211> 702  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15117

cgcagctcag taccnctcc atcganttg cttctctcgt gagcgtaata antaagccga 60  
 gacctctcnc gagcttcac ntnnnnnnna ccccnnnna cgagacggag attgatngcc 120  
 ttngganctt gacnacntt tggtannach nanacacnan gccatantaa tgggcatana 180  
 gatangcgaa accagnctc gcgaaactta ttctcaacta ttctattctt canatacaca 240  
 caccgctcc atacgaagaa agcagagta tataatgtgc antaagcaa taccatttng 300  
 tctgcgtacg tgcaaattac atattatacc atcgtggcat acatactcat caccagaatc 360  
 acaacgtagc acaactca acatcatat cgatactata cgagcatgaa aactctggc 420  
 gngatgggaa catgtgagtc acctgacatc cacaacatgc actctcacac aaaatcgtga 480

tgcacatgca acgcaatatc ttaacgatgc gtatatgtga atatgantgt agcgtgtctc 540  
 gaggtatcga ggaatcctac tagcgcaaca agcgcgtact ccgatagaag tgactgccct 600  
 gtgtctatgc gcgaagaccg tacgtaagca tgacacatca tacgacacat atcggagtaa 660  
 atcaacgata gcagtcgaca gttgtaactc cacaaatagc cg 702

<210> 15118  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15118

tgcaagcctg ttgaaaatgt cttgttggat gagttaaaca taccatttct ggtntanggg 60  
 ttttgtgata atggntgtga tgtttatatg ctgaaaattg cccatggaaa actgttagag 120  
 atgaaatgta gaagtaacct anggttggaa agtgagaatg tgggtgttatg agtggaaaaa 180  
 gaatgacgct ttgagaggtg gaaagcttaa tctgaattct gtggtaaattg ganggtaaag 240  
 tgagttaata ctagctttga atgtcattta ngacttggga gaaagcttgg actgtgctag 300  
 agagaagaca aatgatcaaa gtgaacaaag aggcatttct atggcatatg ggtgttgaga 360  
 gtanattttg atccgtggga tttangtgta atttcatttg agcaattata ttgatgtttg 420  
 gacttgtgta ggtgagagtt tgttacaatt an 452

<210> 15119  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15119

gaggccattg acgcttgtaa cttgatacca tatactacgc ttgaatatac aatacacttt 60  
 gtgccacca tgaagtcctt cttaattatc atgctatcat ggaacttctt antctnttct 120  
 ttgtagaact tggcattctc atacgcttcc aggcggatct catctaactc actcatttgc 180  
 aactttcttt cctcaccagc gtgatccata gagaagttgc aggtctttac tgcccaatat 240  
 gctttgtgct caatctcaac tggaagatga catgccttcc caaagacaac ctgataatga 300  
 gacattccca tgggtgcttt gtatgcaatc ctatgtgccc aaagagcatc atcgagccct 360

gtactcaatc tttcttgctt ggctgcacaa ttttctctaa aattctcttg atctccctct 420  
 taaaaatnta tgctgtcca ttggtctnng ggtgggatgg tgtggatacc ctgtgacaac 480  
 ctcgctacttt taagcaatga tgcattgatn tgtgcaaaat gggttcttga tacgtacgat 540  
 gctn 544

<210> 15120  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 15120

aatgatagat ctcatccagc gcaagttggt gcaaccacac tacgcacact gctatataaa 60  
 catgaaagct gcacgagttt tctaccaagt tcgggattga agaataatatt gtgagtcttg 120  
 gaacttgagt gttttgtgag ccaccttgat gtcaccctaa catcaagtgt tggacctgag 180  
 tgtgtagagc tgatctctat tgttcagaga gcaatctctg gtgtgtcttt gatttatttg 240  
 tatacaccgg agagtgattg agagggagtg agatggcgtc tcatatctaa gaggggctct 300  
 t 301

<210> 15121  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15121

actcgcatgt ctggttgagt cccgtattat atcgagacgc tcgaaattga atgttgaagc 60  
 tntgagcaaa ttcaaacgac aataaccttt tactcggatg tctgattgag tcccgtaata 120  
 tatcgagacg ctcgatattg aatgttgaag ctgagagcaa attcanacga caataacttc 180  
 ttactcggat gtgtgattga gaccggtcat atatcgagac gctcgaaatt gaatggtgaa 240  
 gctctgagca gattcatacg acgataactt tctactctga tgtctgattg agtgccgcaa 300  
 tatatc 306

<210> 15122  
 <211> 455  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15122

accgcctccg cccacatcac cccacaatcc taaatctaag gccatctgcc cccaccccaa 60  
gcgggagtga ccgtgacact gtgaaccgcg gaccggagcc cgagaaccga agcagcgcn 120  
gatcacttgt tacaatctac aattgacgca agtaatcggg acacgcaaac ctgatgggct 180  
aggccaaagc atcgagacta gcatggaagc ctcagaatac gggactgggc tagctaaacc 240  
caacacgaga ggaaaacaac tgctgagatg caatccgggc aaaggccgcg gagaaacaag 300  
gacgaaggcc gcgcccacag ggaactcgaa aacggcccgg gacagagagc ggtgaaaatc 360  
aagatgtgta caggcaggaa ggacctcacc ccccgaccac tggaacagca aaggaacccc 420  
cacacaaaaa agctcccggg taacccataa ggcgcg 455

<210> 15123

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15123

cccccatctc tctcaccacn ttntattagt aanaatagna tattcgcta ctaaaannnn 60  
annnaannnn cncgatgaa gatgatccat tgaaacgcta cacaacatac naagcangca 120  
tacgcaatga gttggctcgt atataagtct atcagtgtac tctttattta ccancaccta 180  
ttcagtaact agtagagtga tcatcatggc tgtgtactat ctacacaaga gtctcgatgc 240  
aagccctgat agtaagcnga tatatcgga ctaacatatt cgattgaatg gttctacata 300  
tataacatct ttgcgtcaac attatggtac ttctggacga tntgtagata ttctcatgtg 360  
tactccatct ttcttagcag aacatccatt aatcgaacaa tgtgaccac ttcagttcaa 420  
gctaacagat aagatagtga acatctactg tctcataatc gaggatatca ctcagcagat 480  
acatccctaa cgatgcactt accacgtaac gcatgagata cctatatagg atntgctctg 540  
atgccatccc agcgcccgga gttagccacc gagacttatc catattgtcg cagccgcaa 600  
ctcn 604

<210> 15124



<211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15124

agctngaacc accatcatgg aatcacactc caaccataat ttcttccact tcttttgctc 60  
 agccatttca atgactacac taactcccat gagtttagca aattttatat cccaacataa 120  
 gcaataaagt agcctagaaa atttgcattg tgattttctaa aaattccttc acaaccagga 180  
 gaaccaggac tttgtcttta gcataacat ttttggtaca ttaatttgat ccacccatgt 240  
 ataggagggt acgagttcac ctaattaatg gttatacttt ttcttggatg tnttcaatc 300  
 cccatagccc tacacatgat gaattcatat tattttatga atcanattaa tccaattaat 360  
 caatttgatt tgttttctaa actatcatat atataggaga aattaaatat atcagataac 420  
 tttgattaca gtacatcatt tataac 446

<210> 15125  
 <211> 605  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15125

gatgccctta aaagatgtct ctttttttag ttttagnttt agaggcgagg gagaaggagg 60  
 ggagcgagggt ttttccatca ttacgcgcac ttagatactc agcttcgagg tgtctcgctc 120  
 tattgaagac natgggctaa nnnnnnnntt gtaatatata gaccacangt caactctcnt 180  
 tgctgaccca taaaagtcaa ctctcttgca cncacgcca agttgggtcaa ttttcaagta 240  
 ctgaggatga gacattggca tgcattgatg gtattataat attcatagat tntcccatca 300  
 agtgcaagnn ttcatatcta taagagtaga gnntatttgg ctaacttact aattngnntn 360  
 ctctactgtt cttaatgcaa gtttgattca ctgtgtaatg aaagttcaat ttcatctact 420  
 tattttcatg aatctatcaa tgtggnactt tctgtcgng tcgtgccaat angatggcta 480  
 accaaactta tgaatgtggt ngttagttag tgtgngcatg tatatacaac gtctacgtgc 540  
 attcttgcaa tatggacgta gagcagtgtg aaacgnnttc agngatanan ccacgttact 600  
 tttgt 605

<210> 15126  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15126

gtgaccattg anaccttgan tccttgaata cacggaacca ggtgctccga gtacctaagc 60  
 caccgcttgt tcattctccc tctttctcga atgggtcaag cggctcatcg gaccagataa 120  
 acatctcgct cccggggagt gcgagctatc ttcagattgg ctgttagcat cacaaaccat 180  
 gggatatttt ggtgttgagc agatctcgaa tgcgtgggtt gctttctctt ttgccccag 240  
 cggccactgg gccgctcgtc ttaatacctg tccgcaaagt gtgacctcta tcgcacaccg 300  
 gtgtggcgat tattggttgc tccccggtta aaccccaaag ttttattggc cccaataaat 360  
 tcgcgaaata ttggcacact taatcctgtg cgaatgattt cctccccacc cccaataatc 420  
 catcggatac taaactgcaa ccggtggccc aaatacg 457

<210> 15127  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15127

ttatttattt gataaataaa atatttaata aaatcaaata ttaaataatac ataataagta 60  
 ataataata cattctactt tntttgaact acctaatttt agtgtgtttc ttgcattaat 120  
 ggttgtggag gtttgaaaaa aatgaatttt cataaaaaat atcattttcc ccattttcta 180  
 taaataatga aaaaataatt aatgatttag agagggtccat caagtctcaa ctctaaacac 240  
 atagtacaaa atgttggttct aacaaaaaga atatcaatac aaaccggaaa atcaaccctt 300  
 tcnaagcact gaatttgctc tacttgact ccctctactt gcttgattaa atttaaatac 360  
 tttctcgga agacaaatgc aatatgaaaa ggctataaat atatacatat tacttcatat 420  
 cttcacgtca 430

<210> 15128  
 <211> 416  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15128

tgcagctttt actaaatggt tggcccatat ttctctatac ttgtaacacc actcattgag 60  
taggtgagga accatgttcc tctcatgaga tgacgcccga gaaatgatgt ttatgacctt 120  
gccttacttc actaagctgg caccactaaa acatatgggt ttgttcgtta tacaggcggt 180  
gagaaaaatc ccacgtttc agaacctcag gattagatgt caaatccttt tcaaggagga 240  
tggaatgatg cattcctacc ccgcaaggca ttggataaat actccaagta atgggcagaa 300  
tgcagaaagc cctaggttta tgaccttagg aattcggcca tggctaagtc gacccttat 360  
cttgtaatat taataagggt catttttggg cttgtttaag gtccttatga agtggn 416

<210> 15129

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15129

cccctccctg ttgtatagtt gtgatcttac aattccctct ncnccccgt ttatgaccat 60  
gtacgtctac cgaactgcaa caagcgcacc gtgagcttcc tgaatctatc taatgctgct 120  
atctacaact ttaattatga atcattagaa ggacccttac actcatcccg ctaatctaag 180  
gtattgagtg ttgacaagct tataagtata tgatggctaa agtcttgtag tgcgcaagtt 240  
cgtcaagtaa ttcatctatc attgtagtct aagcaccagt ctagccttgt tattgatact 300  
tgataatgct ttgctcgtaa ctgtagcact ccacttaaga acttccacgt gaacttactc 360  
attgtggagc aaatcttaca gcaattctcg agtagatttc aactaacatc tcttgctggt 420  
aaagcatgac tatccacaac cacacagact tagtggcttg tctctacacg ctttgaaaca 480  
tctatactac t 491

<210> 15130

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15130

agcttccatc atanggtacc ctagaaatat angatntttc agctattgta ttttaaggca 60  
cctagactag tttttgtatt aagggtagtt ttgtaatttc acatgcacta agtgaatatt 120  
tgatgtgtgt gttgggaaat aaatttaatt gaattggtag aacccccaat ccaattaaat 180  
tttagagggg gaggtgaaca ttntcttact acaccccatt gccacatcat atagtcacac 240  
tttgtcatg tccttcatgc tttacatgtc tcatgacacc taagcacaat tagtggagaa 300  
tcttgaatt gatcttggat tagtgggctg aaccataact ganattcact aatcataatt 360  
agt 363

<210> 15131  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15131

cctacatgga aattatataa aaggtaacag cgaataagta atacaaagtc caaaattgan 60  
aagaatataa aacaagttta cttttaacaa acctatntca tataaagcac tgcagatgtc 120  
aataacagag aaacaaatta ccttttatat atctcagtat cagttgtgct ggtagtgcac 180  
aagacaacag ctggtatatt gtctttctgc ttctcaagaa accgccgcac agttcctgaa 240  
taanatgacc ttagaagaat atatagaaca aatggacaat acanagtgtg gaaacctaatt 300  
aataatatat tatccatcag acatcagaaa acagttaaca acatagacaa tcactatgtc 360  
tat 363

<210> 15132  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 15132

agcttgctg tccgatgcag cagtaatgat ggcccgagtt atgttgggga acggttacga 60  
accagaatg ggtttaggca aagagaacgg cggcataact agcctgataa atgccaaagg 120  
aaatcgtggg aagtatggtt taggctataa gccactcag gcggatatga agagaagcat 180  
cgcggaagg aagagcggtg gtcaaagctc gcgttgagga caagaaagtg aatgaagccc 240

gccctgccac ataagtagaa gctttataag agcgggtctg ggagacaaag gtcaagtgg 300  
cgcaatatgc gaagatgatg ttccgagtag attgggattg gtacgaccat gcccttctga 360

<210> 15133  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 15133

tccttcacaa ataactacca taaggcataa acctagtaaa actacacatc atatctccca 60  
aacacccaat acccacgaaa ttatgtgaga aagaagtcta cccaaacctg aaatttgaag 120  
tcccacaacg tagaggtgcg cttcacgact ccgaaaatgg cttcctttcg cgatttggag 180  
caaaaatggg gtgcaaaggt tgaagctttg acggagcttc aatggtgagg aagatgaaga 240  
gaatatcaac gagagagagg gggagaatag cttctgaact ttt 283

<210> 15134  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15134

agcttcttat ccaatgctca tcttggtggg gaagctcctt cttccatggc ttattcccta 60  
gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgga 120  
aatcaccatt taagaacctc attgaagctc anagatccag cctccataga agccccataa 180  
gcaagcttcc atcaacatct cttctggatc agttcaagtg gagggtagat ccacttggtt 240  
gttcaaagag aacaaggagg ggtacatctc ttatgaatct ttgcttgtaa aggtttttac 300  
aacgttgaaa agaaatctca aggaccgcaa gtcgcttggg gactggatct aagcacgggt 360  
tggtgccgaa ccagtataaa actcttgtgt ntgtcttctt cttccctaca ctctntaatt 420  
tccgtgtgac actntaatta tcgc 444

<210> 15135  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 15135

tgagtgtgct cacaactcta ttctcaagta cacagtgtac catgtttatt ataacaggac 60  
 ttcttgagagc ttctgagaaa ctctgaaact cttgaaaact ctgaactaac tactcccacc 120  
 ctttactact actcttgagc tctagagatc taagactgac tactcctatt ttatactact 180  
 actctgatga actactactc ccctgacaa ctgatcaaaa gctctcaact taagccaata 240  
 agtaacttct ctatgca 257

<210> 15136  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15136

agcttgtcaa gccctttagc ttggacaagt gttgtacggg ctatttctgc taagttgtcc 60  
 agagtggaca cactntntgt tntacaggtg aagtcagacg tattgcacag aanagatgtt 120  
 tgtatttgac aattctgccc tatnttgacc attggagaac acattgaagg catgtgtttc 180  
 attnttcttt tgttgcaagt gagtgaaca caagcacgct actcttgcat atgtgtcacc 240  
 cgtagagtgg acacatactg gagacgcggt gtgcggatta gtggggttgc attgtggtgc 300  
 aaacttccaa ggcattcattt cagctcctgc cagctaccga agagttgtgc ctccacttaa 360  
 attatgtgta cgtttgatnn tttatcacca ccactttgaa tntctactct ct 412

<210> 15137  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15137

acaatgatca caaaattcaa gtntatctag tttatcacca cctaacagaa tttgtttctc 60  
 aagttcatgt aatcctctnt cactaacatg acctaatctc anatgccaaa gttttgtttt 120  
 atcaatcaat gtattactag ctatcaatgc atgtccaaca atggtggaac cttcaagaat 180  
 aaacaagcca ttacttttat tcttggtacc cttagctatg attaaagatc catttgaaat 240  
 cttagaaca ccatttaaaa ttctagttga atatcatgga tcatcaaca ntgttatgga 300  
 aataagattt cttttgagtt ctggaatggt accttacatt ttcagtagat actctctatt 360

atcaaacatc tttaatctca ca

382

<210> 15138

<211> 341

<212> DNA

<213> Glycine max

<400> 15138

ttcggcgatt cagctcgtcc cgggatctct aagtcacctg cagcatcaag cttatcctaa 60

cgtgtaatac aacaccgtcg atgaatattt gaatcagttt gtctgatttc tgaggaactg 120

gtgcaatgca attattgttg atctggtaag tgcgcaataa aaccgtagg cttgtatact 180

ttatgcaaaa ttgcttgctt ttgtcctacc ctctcgaaac catccacatt gatgtgatct 240

tcttttcacc tacaagaatg agtaataata ctctaactctg cagtccgaag cactgggttac 300

aaatatttac attattcttg aatacatgtc actgggcatt t 341

<210> 15139

<211> 101

<212> DNA

<213> Glycine max

<400> 15139

acaactatat acgcaattac atgtacatac tgatatatgt catctactga tactagcaat 60

cacactcttg cctatcaatc tcttcttctc ctcatcacaca t 101

<210> 15140

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15140

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gatatcttca tgtaaagtgt ttgggtagga agaatttatt gtatggggtg agaccatgta 120

atttcagtca atctctacat gacacattat taactctttc tcctaaattg aaaaatgtag 180

ttaagtgtca cgtggagatt gactgaaatc acatagtccc ggatcatata ataatttata 240

ccangcaagt ngctttcaaa ggccaatgga cacaaaccgt cttagaagaa catctgggta 300

tgtcacacaa gatcaacaag actattccca tcaactta

337

<210> 15141  
<211> 60  
<212> DNA  
<213> Glycine max

<400> 15141

gatattacgt atcttaccgc tcacatgac tgtataactca cattgagtc tctgagggcg 60

<210> 15142  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 15142

gaacttcctg cttttattcg ttgaccacag agtgggtacct ggagatatgt cgcggagggtc 60  
aagagacctt ggggacgtca ggtggggtgc tattgcccac aaccaagctt gaccaatccc 120  
gacccaacct gggcatagtc ggtcagtgag aacctgtgat gtacctaaac aggcgagctc 180  
ctggcagtc acagataaaa ggaacaaa 209

<210> 15143  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15143

cctacacctt tatttacatg acaaggcaac tagttgtgca tgctgaatgt agtgtatgac 60  
tagaggcaat ccatctgact tacaacacct tgatcctgag atagatagga catttcatag 120  
attatntagg catcattnta taccttttga tcacctgag cattccatta ctggtgaatc 180  
tgtgcattct gttattggtg attttgaaca tcctgattnt gagcattata attttgagca 240  
ttctgattct aaatattctg atgttgaaca ttctaagaac atggcacaac ctccaccct 299

<210> 15144  
<211> 550  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 15144

tccccgccac caccgacacac aactacgaag acacgcgtga ctgtggaccg ctgccaccgt 60  
cccannanca gacggccaac tgaaccttgg aaccttaaaa ccgacganna cacgaacncc 120  
ggaagcggaa aggccaacgc accaccgttt atatatcgcc agcgcacccc tacaggaacg 180  
acggcacaat accgaacccc gagatcgaca cgtggggcgca gcagcgggcg aacgacacag 240  
aacggcgaac gcgaagggaa gagcgacgca taaagaaaag caagggctac gagagcgcg 300  
cgcgcgacgc acagcacgga agtgccacac acaccggcag gcgaagaggc acgacgcgcg 360  
cacgagcgag aggcacgaag cggcgtcgca cgccaaagag gaggcgacgg cgagccggac 420  
gcgacgaggt acaggaacac gcaaaagagg acacgcgggc aggggaacgac gcgcgcgcaa 480  
cgtgaaacac acacagaggg aagaggcacg gggacgtgaa cagaacacgg aaaagcggac 540  
gacacgaacg 550

<210> 15145

<211> 780

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15145

acacctcacc gtcaactcnca cagacatctg tacnntaata catctcttan gcttgtatta 60  
atnntgctgc gttttaccaa nacnccnnnn naaagaggcg gcgcgatttg anncccttgt 120  
angncaactn gnacnnancn gncacnacnn aannacnnac ncnacaacac gaaccccnca 180  
acgccncnga ccaccacacc accncacttt attgattttt atctatagtc angcacctna 240  
taggaagcag atgcgggaga ctgtgttata gcaagactga cacctggaca acatagtacg 300  
tgtaatgtga ctctacacaa gtgactaccc tggtgtatcg tcaagtagac agtacgcgta 360  
tgacacantg cagactata tcagagagac tagcatacgt cgatgcttgt gcattatcta 420  
cgtagcatac atatatgtgc agcagtggaa gagncgactt gtggcaatac tatactcggc 480  
gatgcgtgat caatcgatag aatgtcgcac atgacgggcg acacggacag ngacgtccta 540  
tctcgtggat aatacngtg atatgagtac cctatggact gctncttcta tgataccgct 600  
ctatgacgta tcgattatca ctagactgcy atatgatacc acatcaggca catcgatttc 660  
tattacgggt ggactctgac gtacgttctc gtgcgtgagc gcaagtgtag cgtcgatgat 720

gcgtagcctg anataganan ctgcgactat aatcggagtc ggtacatatg tacgacagcg 780

<210> 15146  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15146

agcttgtgga ctataccttc gaccgaacac ggtcgtgttt ctgtctaagc ccggattcaa 60  
gcgggctgta acaccggctc cgctatccta acttgactgg aggcgggttg ggtggcttta 120  
tcctctatgg ttatctgaag ttntaacatg acctccgaga tggaaaccat ntgatctttt 180  
aaggccgata gatcggcctt catccgttcc tgcacgcctt cttcattatc cattattctg 240  
gatcgagtgt tataaggggtg ccttgggtgt ttcttatgta tgatgaaatt cctaaagaca 300  
taaacaatgg tgagtatgcc acctcaacat gagtatgcaa atggatgatc agagcactcg 360  
gatccacccc aagatttttag atacgtaatg agtccaaact tctcatttat aaaa 414

<210> 15147  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15147

ccctgaacct aaatgattat ctctagatac cttgttttaga ttctaggaga gcatatgggt 60  
canagcatat ttaccccata tttgnnggag tggaactgat tggcatgcaa agaataaggt 120  
aaagcatcaa cacacacaac aaataagttg tatgttaaan aaaaagagca atcaaagaat 180  
atatgtgttg ttgtaataag gtcaaaagca aatgatagtg aataactagt gagcaagcta 240  
attgtattaa aaagatcact tggataagtc tagaatttgt gctctcttag aatct 295

<210> 15148  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15148

ctttaacaag ctttgaacaa tataacttggc cttcatttaa cttgctctgg gcttggcggc 60  
cacgctcaac aaaatacttt cgacacctac tgtacgttgc tttgaccaag gctattatgg 120  
gaatgttgcg acaatccttc aaaaccttat tgatacattc tgaaaagttg gttgtcatgt 180  
ggccttatcg acgtccttct ctatcataaa ccacgtcca ttttccctt gaaatgcgat 240  
caatccatgt tgctatggct ggacttagtn tacgaaattt ttctaaattt tgatcaaaaa 300  
tgtgcttgca aggagtgtan gctgcataaa attatttatc aataacaatt ttaagtatat 360  
atg 363

<210> 15149  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15149

gcacctccct aatggcatta cntttaaatn taacaacaag gaactatttg caacacttat 60  
gcaaagataa ggactattnt ttacatttca naaggatatg gactaatttg caaaatgggt 120  
acaagacagg gacccaaatt cctattcact cgataattaa gtcataaaaag tttaaagtat 180  
agggtatttt cgtaaatgac tatataacta tcttacacat agaattntag ttttaattag 240  
tggtgactaa ttaaagtatc taattatatg atgtagaata attacnatac agtggagtat 300  
aacaccttaa naaaaattac agctcanact gacaaaggan natttgtgtt gtgtcatcng 360  
tgcatgtata catnntaatt cagtagctat atatntttat tcataacant tagcgggtata 420  
tatatatata tatatatata tatatatata 450

<210> 15150  
<211> 411  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15150

agctgtcagc ttaccgcttc aaaatttttag atatcaacta actgttcagc ttttagatac 60  
ctttccactt ttcaactagt tnttttagcta gttttatcga atatagtcac aacaaaatta 120  
atctaaatag ggaagagaca aaagaatcaa agaagatatc aataaattta aatgaagaga 180

taaggaaaga agaatagaag tcttaggggg tgtntgtgtt catggaatct tgatgaaata 240  
 ttccctaagaa tatgaagatg agaatatata ttctcatatn tgtttcaagg ttttttacia 300  
 aataatctcg agtactattg aatattgcga atgttataat ttctttcttt accatgcttt 360  
 cttgcatcta tattctcatg agaaagggtg gggaaaatga tattcccatg a 411

<210> 15151  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15151

ttcggcatca aaaggaagct cgagaagctt ctgccagaag tctgaggaga gagggatgga 60  
 ctcgtcaccg acgaagcttc cgacgagatg ctccgccttg tccggcggtg acaacgccga 120  
 acccattgac ttgttctgat tgaagaanaa aatgggtntt nttttggcgg agttcaagat 180  
 aacggcattg cgcggaatca cggtgagatg cgaaaagggt ttgaggtggg ttttgaat 240  
 gaggagagtt ggtgcagcac agacacaaga agaggaggaa gaagcaagat atggcttcaa 300  
 aaccaaggct tttgtttcct tcccaaacia actacttggt tgttcaatga ctntntagtt 360  
 ntggatacaa tgcagtcaaa tattattatg tcaagcagaa ctggcaactc tcatatatat 420  
 atatgtatat atatatatat a 441

<210> 15152  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 15152

gcacacgctg catgccaaact tttagattat tgtgtaccgc acacatgtga cactatgcgg 60  
 cgagactgcg acggtgctaa tctaacttac acggccacac aacaagaaga aataccgcat 120  
 cgctcagttg ccaccttaca acgtcgtcac ctacgtccac aatccccctta ttcttattca 180  
 tgctaaacac cgggtactca ctcaacacgc tcgatgctcc cacaacacgc aatcgatcga 240  
 gcattcgtac ctctacact atccacacgc ggaaatacag ggtaatgcat aatactacgc 300  
 gcataactca tacccttacc gcagccttcc ttactcatat agcccagata cagtctgcct 360  
 cgggtccaata taatacaccg taggatcgac cccaagaatt taactcgcaa ggtgcatagc 420

acctattact taccttctga ccgacgagag caggactaga actgtcacaa gcccaagacg 480

<210> 15153  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15153

ccacgcccc cgcgacatc caaagttgtc aaaacganta atcancacaa accccaccca 60  
ctgcgccggt gaacctgatc cgtgaaagcg acaaacagcc aacagggaaa ccgagctgac 120  
agaccaaccc acttgcttat ctaatcacc agaggaaacc gggcaatcaa tacaaaactc 180  
aaactgaccc ttgagctcag agcaagacaa cggactatgt gaacagataa aacccccggc 240  
gcaaccacac acaaaaatga cacccaagca caagacacca gcggagacac ccatcaaaag 300  
gcacccccca caaaccaccg ccctccaaa gtccggcacc aacaaaggcc cacaggagcc 360  
gacgcgtgac caaaacacag cccgagtcac cgacctcaa agagaggagg aagacacaaa 420  
tcgaggacac aaagagcact caaaccg 447

<210> 15154  
<211> 127  
<212> DNA  
<213> Glycine max

<400> 15154

tgatatcatc gaaatcttca tgatcccgac tcgttggtgg aggatgcatg aatgactatc 60  
tattaatggg gctgcgaatt ataatggacg atgtaggatt ggcgaatagc gatacgctat 120  
aaatatg 127

<210> 15155  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15155

cgcgtgtttt nggancatga actatgatga ctaccactg tattatcttg ctcgactacc 60  
cccgtgcacc ggagaggatt aaccnanntt gaggcactcc acttagaaac atccggcaga 120

gagggaaagag aaccactgg cctgctcac ctaagatcgt cccgatgact atcaaccgac 180  
 atatccgcat acccggctca ccacaccgta aaaatctggt ctttgcgga ataggggaaga 240  
 ttgggcgctg aaagaggtaa gacagtcacg gcttggcata cccatttcgg attggggatt 300  
 atgttcgtgc cacatcgtca tctccaagt canagaccga acttgatatg tacaagggaa 360  
 acatgtcgaa ggggcatttn gatgattgcg aagatggggc gtatctggga caaaattgtg 420  
 tcattcttca gacagttgcc g 441

<210> 15156  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15156

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 ataaagagca aaggaaagtc tcatggcatt gtagagtgc caagctgatg ccctatgatc 120  
 aaaacacaag gcagtgacca tgcattgaaa gctttccaag aaacacatta agtcngtgct 180  
 caagtaaaga atnggaaact tcttgcttat gtctgttnga aacgagaaaa caagtatatg 240  
 ataatatagt gattctataa gttcttatat aaagagaaca agtggntaag ataacttata 300  
 acgatgcttt acttgaatat gaaccatcct acctaaataa ggggtgctacc aattaaggac 360  
 acataaaggc cctgggatgc ctgttgctnt ccaacagaag ctagtctttc cattttctct 420  
 gtatatctcc agagaatact ttatttt 447

<210> 15157  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15157

aatctattca tgtttccttn gatgagtcta atgctattcc tccaagaaag gatattntag 60  
 atgatattgc aaaatcttta gaacaaatgc atatntatgg acaagattct aaagganaag 120  
 ggaaaggaag caatgaagat cctctagaag aagccaaatc anatgatgaa cttccaagag 180  
 aatggaaagc ttcaagagat catccnctt gacacattat tggtgatatc tcanaagggg 240

taacaactag acattctctt aaagatttat gcaataatat ggcttttgtg tctatgattg 300  
aacctaanaa tntaaatgac gccataatag atgatcat 338

<210> 15158  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 15158

agcttctcta ccaccctcat tttcttcccc tttggcaaca tcaaatagtc aaagttcgtg 60  
ggaatcaata cagataaaaat aatgaagtgg acaaagatca attataagtc ataaccaacc 120  
aaaatcataa ataagtcata acccaaatat aattcaaaca gtcataattc caaaccacat 180  
agaaatctaa cataaaagac tcaagtccaa gtactaaaag ataaattaag tgcagaaaat 240  
gataacttaa ctacat 257

<210> 15159  
<211> 540  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15159

ttgcacatga tccaatcggt angcgcttat gatactcagc ttcaanaagt caaactacaa 60  
accatttggt aatgaaataa ccaatatact gcaacaattt atcaaccccc aacaaacggg 120  
tcttcataat tctctattag accagtatgc attcctataa cacaagcctc aatttgcaaa 180  
cacaagtaga tagaagctca cattccttgc aacattgaca gttcatacca agactcagaa 240  
nnaccacaag ccaccaanta attcaatata aactaaaca ataattaaga aacgagcatc 300  
caccatcttg agttgagaaa caccctattc aaccaaagac ggcaaacact tacaatgct 360  
tctacctgat attganatcg atacgtanat agtcaccatc agaactcttg taacaattac 420  
agatgtcgng gtgcctacag acaatactac ttagttcctg aaacaagggt gcaagataac 480  
attaaatgaa acttaacaac cagatcanac ttcaaatttt gacaaaccta atagaagata 540

<210> 15160  
<211> 429  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15160

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tgctcccaat attnttttnt ggatccacaa ctgctcctcc ctaaataatat aaaataaaaa 60
ttgacttana tataattnta gtctttttaa tttggataat tattctttta gtgtttttat 120
tttcagaaaa gcatttttaa aaaatgaaat taaaaaatta ttttttttgg ttaaaattat 180
catatttaac tttntgaaat caccataaac acaataaaca aagaggaaat taaaataatt 240
ttttgaanat ntaaaagact aataaaaata aatntatntt taaaaaacta aaaaaataat 300
tacttanatt tagaagacta anaacatatt taattaccta aatntacaca gcagtcgtcg 360
ttgtgtaaat taccataacg catnngcagt aaatgaaata tgatgatata atatgtagcg 420
tanattact 429
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<210> 15161

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15161

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ataaacattc ttatatacta ttttgttggt ccttattata aggtccaatt aactaattat 120
caaaattaag aaaattggtg aatttagttg agggcattaa agacattntt gtgaaaaaaaa 180
taatacaaag gacattntan gttgaacctt ataataagga tcaagtgaca cttgtaatgt 240
ggatattata ataagcatta gatggagtac catattaaca ccataantt ttctttcact 300
ctttttctat catgtaatat caattaacca tacttgatnt ctttctcttc tctctttatg 360
tgtcaattag tggatcaatga atgtntntnt catttcttaa ctcanattga aaatagaaat 420
atattatttt aacaactaa 439
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<210> 15162

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15162



aagaagaatg gtctcagcaa actccttatt tctagaaaga aattatatca atagaccttc 60  
aatctttaat ggagaggggtt atcactactg gaaaacccga atgccaattc ttattgaggc 120  
aatagacttg agtatttggg aagccataga aataggtgca tatataccca ccacagtaga 180  
aagaattacc atagatgggtt gcacatcaag tgaaagcata accatagaga aacctagaga 240  
tagatgggtct gaagacgata gaatatgagt accatacaat ctaccagccc aaaacataat 300  
aacatcttgc ctgagaatgg atgaatattt canggtttca aatngtaaga gtgctaaagg 360  
aatgtggaca ctctacanta acacatgatg gactacaaat gtatagatct ggataacaca 420  
ctacccatga g 431

<210> 15163  
<211> 557  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15163

gggaccatgn nnttttctnt ttcaggggtct gacctgaata cgtgtcccn anctgaagtg 60  
acttgtacag accccgccac ncnncganca nannggannc ngannaggat gtgagangag 120  
nagctacggn nngagaaggg nggggctnag gggannnnga aanggnngaa ngnnnngann 180  
nnnggnntn nggggnantg gnaannactg gtggccatac ccagntatac ctactatcaa 240  
taacactcat atttgaaccc tggntnggag agaaagaaaa agctanatgg actaatatga 300  
cccattctag tttcaaatec gctcctacta ccatanaang gtcattcana gactgagcca 360  
gctatctgat tacaggatag acttggggag atacctggtg tcacgacacc tgngaaggag 420  
gatcttangt ctggccagaa tgatcaacat gtgagnnatg aactcaaca aagtggtcag 480  
acagatgttg tgcattggtg tcattangat ctngcttctt gctgcatgtn gctttntacg 540  
acgataccta accacgn 557

<210> 15164  
<211> 563  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15164

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 agtacgcgat ataggctttt attttatcgt ggatgtacat cnatatgttt actacgagag 120  
 gcgtcggact gggattatag cgctcatcgt atacacgctc actgtatatc catagcatta 180  
 tacacataaa accgtcaagc tgatcgaaca acggtgtgac acataagaca gatcgtattg 240  
 tgctactatg tgctatcaca tcgtatgaac agtatcgctt caacgataca atatgtagtc 300  
 tcagacgctc ttcattctgta gatgtgcgta cgatcaggca caagtacact gtctttccat 360  
 tgcattcaatc ggaacgagaa taaccatatt acgttttact gtcttcgact cacaactaat 420  
 cgtatatatg ttgtgagccg atgtctcgtg atctctatga tcgtgattct catcacgcta 480  
 acgaacatga ttaatcacca acatctacgc aacaaacatc ctctataccc acgtcctatc 540  
 gaaatgagat cgcctacctg ccg 563

<210> 15165  
 <211> 167  
 <212> DNA  
 <213> Glycine max

<400> 15165

aatggagaga ataagaagga gggagaaaacc catgctatga ctgtcgttcc tacatggcca 60  
 aatttcccac tagctcaaca atatcaatac ttggccaata tcagtccttc tcattaccca 120  
 ccaccctatc agccaagaac acccaatcat ccataaaggc caccctt 167

<210> 15166  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15166

tttgaagatt tgggtctcttg cagtgaaaag atccgtgtgg gtcttgaaaa aggcaaattt 60  
 agtcatcctg cttggaccaaa tgagaaaact ggggccaata aagagggtga ggatgaggga 120  
 gaaacccatg ctgtgacttg ccattctgtg cggcccagtt tcccaccaac ccaaccatgg 180  
 ccttactcaa cccttcttct taaccacccg ccaattatcc ataaaggcca tcccttaatc 240  
 aaccacaaaa gttgtctacc gcactttcaa tgacgaacac cacctttagc acaaacaaaa 300

aaacacccac ccagaaatga tatttgtagt gagaaagcct gtagaattca ccccaattcc 360  
 agtgtcctat gctcgacttg ctccatatct acttgatatt caatggtagc cataccctag 420  
 ccanggtcat caacctcatt tcttcgagat acgacn 456

<210> 15167  
 <211> 564  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15167

cgcnactatt tggggccccc gnnnnnaact tgatgaccgn atttgtatgt anccgnnnch 60  
 cnggattagt aatgcanntc tnancncgcn ggacnanggn ggcgaaacgg gcgaaaggac 120  
 atatcatcta ttcccatttc acaagtcagg cataagcaca ccatccccag tngccaacct 180  
 ttaaattgag ctacgtact cctgcgtagc tcttattcct cgtcctctca gcaactgggtc 240  
 cccatcaacc cctccaagct ttcacaaaat ccaaacaatt caattccatt tgtcatgaaa 300  
 ctaccttaca caatgaanaa cagagtagag gcagaacctt tgcacaagaa atcattcaaa 360  
 tccacagaag ttttctaacc tcatacctnc ananatectc ttcgtagat tcgtaaccat 420  
 ggatcgccnn tgaactttac tggaggttnc tatacagaaa tctannattt gacccgngtg 480  
 atctgctaga gaatgcctag acacgagatg actaccttcc cnggactagc actgacaacc 540  
 attntctgct aatggcanna ttcg 564

<210> 15168  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
 <400> 15168

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 tatgcaagtt gaaagcctta gaggaagag gtatgcctat gtttgtgtgg atgattactc 120  
 cagatttacc tgggtcaact ttatcagaga aaaatcagac acctttgaag tattcaagga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatca ggagtgacca 240  
 tggcagagag tttgaaaaca gcaggttcac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatta caccacaaca gaat 334

<210> 15169  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15169

ccagagatgg agtccacgga ggaaatgctt accacctcan aagactggat agcggtttct 60  
 aatgactcct ctgcggttc cacataaggc atagaggatg ggcagctcac caagatgtct 120  
 tcttcgcctg atacgatgac cagatgccct tccactacga atntcaactn ttgggtggagt 180  
 gtagagggaa caacccccac tgagtggatc cacggggcgcc ccaacagaca gctgtanggn 240  
 gggttaatat ccattatntg gaagggtgact tgacagggtg gaagggctat ctgtactgng 300  
 agatcgatct cttccctaac ctctcggcgg gtgccgtcga aggcacgaac caccattgaa 360  
 ctcggcttta agtgggaagc atttgatgga atttctcana gtgctcttan gcatcacgtt 420  
 aactggaacc atatcgatga cactttgcta nacatgggtca taccttactg accttgcaag 480  
 cttatatgcc tctccg 496

<210> 15170  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15170

acctctgctg ncggtcgggc cgtcgtcata ttattatgtt tacacatata ttcgtatttc 60  
 tgctactcat actgcctatt attcttattc acgcgcgcaa ccacgtgtat aaggcaccta 120  
 tttctggcta atacattacc accgcgtcct gcgcttatat gcatagtgtt tgatttatcc 180  
 tgcttcctgc tacttcaatc ctaaatacacc c 211

<210> 15171  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15171

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 cgtgggtacc ttggtgatca gatagcttct cctatctctg acggaacgac tggaatctgt 120  
 gattggatat catagcctat tgtgagtaat tagctccaac tcatgagatg atccctcaga 180  
 tctgggacat agcagacatt ctgatatgac acatgtctta catctttcga atacacgaag 240  
 atcttacatt ttccttgtac aagaatctta gaattatcac canatgagac attgtcactt 300  
 actgattcat caagatccac gaacatgctt ctgttctaca catatggttg cttgcaccaa 360  
 tgtcaaagga tcatgtgttt tcttggctac cttcattacc tccacatgc 409

<210> 15172  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15172

atgaatattt tctacgaatg acaaatggtt cacctaagtt gaagcgacct actgactggt 60  
 gagcccaatt gagattgtgt ggatataatc nacctcagga t 101

<210> 15173  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15173

agctntataa tggactttct cttcattgct actagcatca gcaatagtaa cagacttctg 60  
 tgtcaatata acaagatcaa gatccataac actgaggtgt aattggactt actcattcca 120  
 gtcagagaag ttaagcccat taaaattggc acaaatgata cataagaatt cagtgaattg 180  
 tgaacatgtg ttgcataata acattcacat aagtgttttg agacatacaa tacatgtcat 240  
 acatatgatt tattcacata atgatcaatg tatattgatg ctctcctttg ggtgatacag 300  
 ttgtagaagc acgcttcatg atgaatcaag attgattcan agaagttttg acgataacaa 360  
 aggtgacgac aaaaagcttc gtgatgatct caagaatc 398

<210> 15174  
 <211> 328  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15174

gtgttggttcg ggctgcttct gtcaagtctg ccaagggtgga catgctattg gttatgcatg 60  
tgagggtctaa catgtcatgt gaggggaagcc tgtatattag gcaactctgt ccttttctaa 120  
cagttggaga atgcattgaa gacaaacttt atgttttgtc tgataatgca gctgcgtgta 180  
gtgcacacgt agtactattg cacacgtgtc actcgtggag tgggcacgta ctanatacgt 240  
gttgcggtggg atatgaagtt gatttgcggt ctctctctctg cagtgaccac cgccacttcg 300  
aaattctatc ttctttctct cgacagat 328

<210> 15175

<211> 522

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15175

ccaacaccca accacttcac atctcagaag cggcgctggt ctgactaatc gtataaccgc 60  
acacaccacc aacgagcggc gtgaaccctg aanacctgag atatcggcaa acagcgagac 120  
ccgagatcac tgaggcaccg cagcatgcaa ctgttaaaac ttggaaaaaa acacaagcgg 180  
tcgccggcgc cgggggttgag accaccacga agagaagaca gaaccgtgat gcataacgca 240  
acaggcggca caacggcagt aacaagaagg catatcgaca agccgagggc tcagcgctaa 300  
cttccaagaa acacctgagt gactagaag gacgtgagct gaacaccacc aattatacac 360  
ggcgtgacac gaatgacaca tcgaaacgcc actccgacag cggggcccaa aggaagaacc 420  
ggcgaaccgc tgaagagagc tagacttagt ccagcgact acatccggca cagaacgcaa 480  
agaccagaaa tgaggaagag atggtccaca tcgacacaca an 522

<210> 15176

<211> 579

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15176

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acgaancnnn nccaacctca gacgcgttga accttganaa ctgctcaaca cgcggaactac 120  
 acaaactcat gctttgagac agcccacagc aaccaaagt ctttccctct catctaatac 180  
 actattgcaa gcatatcaat agtgaagccc caaggggaat atgaagtga gcttatagta 240  
 ttctatgacc aattaagggt agagatccat gcaactgtacg gctccagggc atatctatag 300  
 taaggatctc tgctctgaat atttatgtcg tcgtgatect aagtcaatac tctttctaac 360  
 atcttcaccg tataaagacc tgaccagttg acttttataa catatcatca cagtacaaaa 420  
 ctcatatcaa gactcaatga tgctagaagt caacatacat tgccttacta gtatacaaaa 480  
 tgaacctatc caactttcta attatatcat aaacctagta tcccaaacct cctcatattc 540  
 ccatactttc taataagcat tgcaatgaat ggcataacn 579

<210> 15177  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15177

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 ttgttgatgg aaaactgcta aggatgaatg gtagagttta cctaagggtta gaaagtgaga 120  
 atgtagtggt atgaatggaa naagaatgag gctttgataa ttggaacgcc aaatctggat 180  
 ttagtggtat ttggagggtta aaggagggtta atcctagttt gaaatgtcat ttaagactta 240  
 tgag 244

<210> 15178  
 <211> 113  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15178

ttccattatt ttattcaagc tctgccacat gtcctattc gattggagca aaagggccca 60  
 ctttctctnt ttgactgtga cccatactca gtcacaaaag tgagaaaaat ctg 113

<210> 15179  
 <211> 577

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15179

cccctcacat atcgtaccct ctacctttaa cantctagca cctgtgaatg gtganctact 60  
acactcatcc caacaggact ggttgaacct tgatccccct gaacggcgaa tcaactcgccc 120  
cgggatccct agatcgaact gcagcatgca agcttggtat agaactgacg aaaaatcaag 180  
aacaagcgtg tgcgcacatc gctcgagtat atgatataca ctccacaatg tttgaagtag 240  
aggagagctt caaccctata acgcaacgtg gcggacacaa gtgggcagta aacttgaatg 300  
gtcgacattg tcaatgcaga aagtattctg cgctgtacta tccatgttca cacatgattg 360  
cagctagtgg ttacgtgagc aagaactaca accaatatat agcaagtgtt tatacaaacg 420  
aacgcattct aacagctcac tccgcacaat gcgggcctct gtgaatgaac ggctattctc 480  
ttctgagacg ctggacctta tctgccccaa tacattcgag cgaagtcggc aaatcacaag 540  
gtaagaatga atggatgggt cacctctggc ccgaccn 577

<210> 15180  
<211> 286  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15180

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aacggtgggt atgtgtggaa acaagtttct aacctggtgt tcaaatttta cgaatatcca 120  
acggttaacg agtccaacat catagtttta atgggacaag ttctggtgta tgtgggaaaa 180  
atagagcact gtgcgagggg cattgctctc agcacatata ttattntgaa aatcccaatg 240  
gtggggatgt gagaaaatga gttctgaact ctgtgttcaa atttca 286

<210> 15181  
<211> 632  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15181



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 ataccacgtc tgatacggc gaataccgct cgtccccgcg attctctata gtcaaactgc 180  
 atgcattgca actttttata aaaatattag taatttctgg tacggaatca tanaatttta 240  
 gctcgtgata attcaaagct gatataatgg tgatcctaga ctccatagaa ctaagtaaaa 300  
 ggggtaattc taattactat gagaattaag gggatgacat tttcgtaa at gcctatacaa 360  
 ctacgttaaa caatggaatt atcttgaatt agttgggtgac ccaatataag cgtctaattt 420  
 tatgatgcat gataattcta atacggtaga agtgggtacac ctcaaaaaaa tacatctata 480  
 ctgaaaagaa actttttgtc atgcacctga gcatcattaa attaaactcta gtaggtaatg 540  
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 ttgacagaca taggaactgc tgaacaaaat tt 632

<210> 15182  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15182

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 gattagactt gttggttatt tatgggtgaa tcattatgga taattgtgct atgatttatt 180  
 gtgcttagtc ctttctcata cgttttggct ttttatgttg caaaggggga gcaacttaag 240  
 ggagaattat catgaactan gcatanattc catcttaaag ggagtagggg tgtgacacac 300  
 atntatcacg gatatcatta tcttgtttca gatattgcat catcaaaagg ggatattgag 360  
 aacatatatg attngtcttc atgatgccag atgacgcaat caagtangaa tcagaatgca 420  
 aaagaacatg tcttngtana tctagaagag 450

<210> 15183  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15183

agcttttctaa agttgtctgg ttntctatac cttgaaaaca aaagtgtgat attcatcttt 60

ttcattccct tctccctttt ccaaaagaac aaaggactaa ccgcctgaat tcttttgtgt 120

cccccttctc ccttgtcaaa gaattcaaaa cgacacagtc tgagaattct tttgattctt 180

ccctttccca taaacaaaag atttcaaagg actaaccgcc tgagaattct tttgtttccc 240

ccttcacaaa gtctcgaaag actaaccgcc tgagaactnt gtcttaacac attggagggt 300

acatcctttg tgggtacaagt agagggtaca tctacttgng tgggtgtgact gaaacaagag 360

aaggacatct cttgtggatc agtctagtgg agggacatcc act 403

<210> 15184

<211> 285

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15184

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tcatttcata caaaacaaac cattgaatat catattcagt cagttcactg ttcaaacatg 120

cttttgtaca agctacaaac actcaaacaa tagaaattta naagactaga atntanaaga 180

ctaataaagc ataaactaaa taattgataa aataaaaactt ttcataattt gcagaaattn 240

taaaaaaaaa attgtgcgga atttaaaact cctggtcate ctact 285

<210> 15185

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15185

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cctttgaggg tggaggatca tacacttcaa caaccattgc aatangagca atntcagctt 120

caacatgaaa atccaattct tcaatgatag gttgtacatg atgagttaaa gtgaatctgg 180

agtatggcaa gaacaccata taggagaatg tgtgttcaaa tacagtagag aactcccttg 240

tncatatgca aaccatgttg anaggatttt ctanagtga gcatgtatgg tcaaagtctt 300

aataacaatg ccccatctca caatgaactg aatttgcaag aggcttctca tcaagttcca 360  
aactagagca atgatccttt agtctgtaga acctattcat ggcataccaa tccagacttg 420  
taagctaaat ctt 433

<210> 15186  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 15186

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caagttttaa tgtgatgcc aagaccacct tggagaaact tccttttaaat gcgtcacgtc 120  
taaaaccaag ttcgatggta gtacgagcct ttgacggtag tcggcgggag gtgatggggg 180  
aaatcgacat cctcattcag ataggccccc acacttgcaa tgtgggttttc aagtgatgga 240  
cataaatccc gcctacagc 259

<210> 15187  
<211> 268  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15187

agcttcattg cctatcaagc caacttaca cagcaagccc caagagactc agcataagga 60  
tgcacagacc aaagttgcgt atgtaaaaaa attgtatgac caagtgaagg tgcaaattgc 120  
aaagaagaat gaaagctatg ccaagcaagc ccaaaagaaa aggaaggaag tggacttga 180  
acccggtgat gatcttggac atttgaggac aaatgtnttc caagatggag ggaatgatga 240  
gaatcatgan acaggccaaa tacagtct 268

<210> 15188  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15188

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tcctcttctc ctttgccttc cgctgcatct ccatgatgaa naatcaccat tgaaggacct 120  
cattgaagat caaagatcca gcctccatag aagctccaca agcaagcttc catcaagtta 180  
tgaccatttg aatttctcga gatcttccgt ggttcaattt cnggcgtctc catatgtcat 240  
gtgcctgaat cggacctccg taagaaaatn tatgaccatt tgaacttctc tagagcttcc 300  
gttggttaat ttcgagcttc tcgatatctg atgtgcctga atcggacatc cgagtgaann 360  
agtggacaat ttaatttctc agagcttcgt tgtcaattt 399

<210> 15189  
<211> 496  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15189

tgccaagact tgagccgtgg aaacccttg aaaccnctga gacacagata ctcttactcg 60  
cctgcgggat gcttacacgt gaggtgatat gtttcacgac tgatccagtg ctttctctag 120  
agttgtacag ctccaggctct acgatacagg cattcactca ctttgtaggg atggagagac 180  
acatacgtct ccatgcagct cctgtcctcc cgtgacctat tgtagctaca tacactgaaa 240  
cacacatctt ggatgatgtg gagtcatagc cgatatattg atgccggtat gcaagaccca 300  
cccctgctac tgtgcttcat accgctagac ccctttgctt aggaaacctg tgatatgtct 360  
cttatatgca cagtgtgcc aaggctcatac agagacctta acgtgactcg gatcaggagc 420  
ctgatcaatg tcacataaga cgtccctaac ccataactta tctagaacca aacaagtagc 480  
ctgtatcatc gtaccg 496

<210> 15190  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15190

cacaccgttc ttactctct acatcttgcg gttcgctgtc aaatctaana ctacnnncan 60  
nnnccannaa gcgagcccg tgaacctga taatcacacc attanaccaa cctccgacgc 120  
gacgacaaga atcacatggt tgccatcatc tccaagagtg tttttgacaa tgcactcttc 180

atgacgtagt gatgcaaaga agaacaacta gctcatagc tcacatagtc agattgttca 240  
 caacacacct gagtagaatc tcaaaacacc cagctacatg aaggagcat cttcatgaca 300  
 tgcagcgaca cataggggtga aaggatatca aacactcatc gagacattcc aagacctgag 360  
 acgaacacaa gttaagacgg cccagtaat aaaactgtga tgtaccggt cgcaggaac 420  
 aacaaaatct agatatccgc gtccttatag tattggatgc acatagcaga ctgactggcc 480  
 aatcaagaac gatcgtgcga cg 502

<210> 15191  
 <211> 570  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15191

ncgagacggc gagtctcatt catattaatc tggcngacg anttgaaaca acnananntn 60  
 agtaaaaaca accagatcnc ncnnnnnnaa gaagaggang ccgtgagccc cttgaactac 120  
 cgtcgaanca cacncggaac ccggagatcc gctagagacg acctgcaagc atgcangcct 180  
 caccttctgg ttctcctcta ttnatgcgca tgagaaaaca cgctctatct tcgactccca 240  
 ctccaacaat gcctccgaac attcttacct taaaaggagg aacgttgagt taatgcccc 300  
 aaatcggcta agtctaagaa caccaacata tctcatttg ctacttacct ctcattatg 360  
 acctctatca ccattcgacc aacctccatg gaagcacatc cgtagatcat aacctcaca 420  
 agtcgataaa gctgcttoga atgcaacca ctcactaga tgatcccgca cccaacaaca 480  
 gccaacgaat acacacctgg tgaggataat cctcaccgca aatgaacca atatggtatg 540  
 ttatgaaact cagcataccc gtaaaccatc 570

<210> 15192  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15192

ccccctctt tcatactata ctatagcaat tacnccnntt cncagagcgt tggctgaacc 60  
 tagaaacact actgatgacc gaattgcaat tcaaggctac ttttcaatac atcagccata 120

agttaacctt aatgcacagt cctcagaatc atggaaatta caactgttag tcatggctaa 180  
agataaaact acatgtaacg aacctcataa tattgactga ttggatgggt gtcacgggcc 240  
tatatatgaa ggcaaatac accaacctaa gattatatgc atacttgtac aggactcatt 300  
aatctaattc aacctgaaga acaagaccta taaatacaag tataccgacc agtgtccacg 360  
tgtttgatga tgctgatgca agagtcttat atcaatgcc a ctacacc 407

<210> 15193  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15193

accgaaccac cacctaccga caacagaacc aaaagaanat accnncaagg gaggtgagcc 60  
tgaacctaaa nccccaccga agcctaagaa ccgcagcggc agccgcaaac ttttgaatta 120  
ttacgactac caganacgac ggccgaggcg aaaagaccgc ccggggacaaa acccacagag 180  
aaacaccaca acgctagact agaaccgggg ccacagcgat agaaggatga gaaccctaca 240  
gaaggaggcg aaccgtaccc aagtgcacca caaggaaaag aacagcccac aagcaaagac 300  
gaccaccg atgcgcggac cgaccaaaga cacatggaag aagcgtgcac accaagaaaa 360  
tgcaatacta acggggcacc gaacagcgcg acgacgtgca accaaagaaa cataggcaca 420  
aaccggagag aaaaaggaga cagaagtcag acaaaagcca agcaacgcaa cccggccgcc 480  
aagtacacac c 491

<210> 15194  
<211> 662  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15194

gactacgctc ancnttcnc tctatctctg tatcaannag gtgtaccgtt acgaaatnng 60  
netectnnnc ancnnnnnnn anccccacga gcggaattga tccctttgac accgtgcgct 120  
atccatacat caagcagntc tacgatanga tagcatctat aactatcagc aaactggtac 180  
tcgttttttt ctatcttatt tatantcaca cttcgtcgaa cgtctgatgt gtgcgctctt 240

gactgatcat actcaacgca gctcatccta cccataactca ctacaggtaa tcacgtgact 300  
cgctagtcta agatataaca gactatgata cttcctattc actataacaac gaacaatcgt 360  
gggactctct atctcacaat acacatcatt cgccgctagt ttatagaata ttcataatta 420  
tgatcctgat cggatagaag atccacagtt ctcggtcat atataatctc tcctaagtac 480  
gatcgtctga atatgacact gttgagatag atgnactcat cttctgatcg actcttacct 540  
gactatgacc tctagagatc ttctaagacc gcgattataa gcaactcgct ccgtatacta 600  
gtgggtctgat atcgtttcgt cgactttctg acagcactga tcgttgttct ctacaaagag 660  
cg 662

<210> 15195  
<211> 172  
<212> DNA  
<213> Glycine max

<400> 15195  
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tatgatattc cattccatga accttctata agatcagaga tatctttgta taccttatgt 120  
caccggtgac tattgctgat gcatgcgcct tgcttgaact ctttaatctt gc 172

<210> 15196  
<211> 257  
<212> DNA  
<213> Glycine max

<400> 15196  
tagctaggat attgatagca tgtactgtaa tccatttata ctttggaact taagtgctct 60  
ggatgatgaat atcataccac aatcgctata atattccaac acatagatct cttattgaaa 120  
gaatatggat acaattttta aaacgtgaac aataagattt ggaaatatat attaccatat 180  
tgacttgatt aattcgttac cggcaaatat aaaactgtac tattgcaatt ataattgtca 240  
cagcgtgaaga cttgaat 257

<210> 15197  
<211> 143  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15197

cgcttgtata atgttctgac atgacacata ncacggtttg gattggtgca atggtaaaac 60  
ggatgctcta cattatcttc atgtaacaaa tgcgaatatg atgatcttga aactctatgc 120  
aaaatctggc atgcatgcac cta 143

<210> 15198  
<211> 526  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15198

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gcatccgacc agcttttttcg ctctgatgtt ccaactgcac tgagtgttca caataatata 180  
ctatgtctct tgcatacagat catccaaatt gtcttggaat cggctggagc caaactcgtc 240  
gaagaagcta cgcccaatga tatgcatgaa tctgtctatgt ctctctctcc cagtcattgc 300  
taacgagact aggatctact gcatatatac agttttttgca gcttaaattgc attcctagaa 360  
tgataatgca tacgacggcc agtagctcat ataaccacgc tggtaacaac agagattcct 420  
gtgtgtctaa tataaccaga ggatgtcgcc cacgcatctg cagctatatt cgggacactg 480  
catgactaaa taagatgtgg aaccatatca tgaggctgtg caaacc 526

<210> 15199  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15199

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gcaactttta atattcccct gaaaagagcg ggaaggcgcg gaatcagaaa ccacggccac 180  
tcctaaaca gtatatatgc taggagaaat ggacggtcta gagaccgcgc gtagagggag 240  
aacgatactc acccgcaaaa ggagaaccaa cctagagaat cgcattctcat gcaagctctg 300



attagacaca caacaccagc acagatggca aaaacgggca aatcaacgga aagggaaagg 360  
aaagactaca gcataggatg gacgaaacaa agatagatca cgcgatcaag tgacgacaca 420  
atgcatcatc ggacacggca gcttacctta ccaagaagtc agggtcact gaaataccaa 480  
cacatgaagc 490

<210> 15200  
<211> 701  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15200

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anngnnnaaa annnnccccc ncacccgctg agcgattgna cgcattgata cccgatcgaa 120  
acatccgaca atatantata ctncaggcct actngtacag ntttatgatn tgggacacga 180  
gctatatcta ccctactgct acngngcttt tactgattgt catgcaccga taattntgct 240  
gaatcccgag atctagatgt caccataggc tatagaaaag tgaagctcat acacattata 300  
gcatcgaatg caggtctcgt gtgtacgaac gagtngtata gaatcagaat cataacattg 360  
taggacgtat acacttcaca tatcgcggtat tgcattgccac tatgagagac aagcgtcaga 420  
ccgactataa tagtcagaca ttagcgatca tatgatcttt aagcacacac aacatatatc 480  
agcgccagag acatcaatga gctatgtgta gactatgtta tagacacttc tataacattc 540  
aaactagaca attacgaata ctacgacagt cgagaatggg aagacaatat gatatgacac 600  
aatactccac gccgaacaag atcgacgtaa gatcatcatc gcataaatat cgacatactc 660  
ccgacgtcgc atacgataga aactacctca actcccgatc c 701

<210> 15201  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 15201

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taaagcccct ccaaagtgcct ctgcatgggt ataccaccaa ctgcttgctt cttatcggca 120

tatccgagga aaggctcgaa gtcagctaga ttgtggtagg gaatatcatg tgtctcccc 180  
 gtgggttgag agacatgtac atgatgaagt tgtcggctct taatgagtat gggagcaaag 240  
 tcaatgacat acctatttgg agtgtacgcc atatctggtg gtgtatggtt gggaggcaag 300  
 ccatat 306

<210> 15202  
 <211> 559  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15202

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 caagagtgcg atttgaacat gaaacnctga aangcacact aanaactcag cgtagaacct 120  
 tacatacctc cnaaaatagc ctcaattcta agtttctctt tcatgatgta tagctctggc 180  
 tcacatgaag ctattacaga aaggataatt attgcaatta cgtttagatga acctgcgtgg 240  
 cgacctgata aaatctcatt aaggntaatt ataggggtctc tattgcatat aattccgact 300  
 gtacaagaca acctccaatg gctaatagtt tacagggtcca tagaagccct catatgaact 360  
 acttgatata tcggctttta tgttatatac ctagaaacta gataatttta actctcatgt 420  
 tcctgtact cattgaatgc atagacctat atgtgacaca tatctatctt attaccgata 480  
 aattgtgatg atatatgctt ctatgtgacg cacctatagt cttagtgatg cttaactaat 540  
 atactatatt gtctaccg 559

<210> 15203  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15203

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 ggatgcccc aactatttcc atgacacaaa tgcaaaaatg atgatttgga aactnttatg 120  
 caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaactttt atgggtcatgt 180  
 gatgctaagg ctcaagattc atttactcca ttttaaatac acccaatggt tccaaaatat 240

gtgcttttat caatttgggc attcctccaa gtacatctcg agcatgcggg aagattncac 300  
 agcattcacc cttcaggtgt agacacgtat gtttcacaaa ctagctatga tcagcgaata 360  
 tttctattaa agaagaattg ggaatcatct c 391

<210> 15204  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15204

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 ctaagtgcga ggaagaatcc aaaagaagat gagatgaaca ggttcgctaa gcacactgct 120  
 tcctctcact aagtgcacca cttcagttca tctctaaagc gaganagctg cgataagcca 180  
 gaaatcacta atgtgcgcta agcgggttcat acgtgcgcta agcgcacgag cacgaacaag 240  
 gccacctatt taagcctg 258

<210> 15205  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15205

atgagtacaa ncttganncc cgtttggatn ccancagttg anttacagtt ngaatactac 60  
 cggcgaancc gaggatcgtc tacagtcttc ctgcgagcat gcacgctggt atgcaacttc 120  
 ttattgaatg tttgtgcttc ancgatgaa ccatgcagcc tatggcttca tgaactacta 180  
 ttactgagac atttctgggt gccgaggtga gaggtggagg tgcacattac ttgaggaagc 240  
 ccttcttgct tgccgaattc tttgcgttac aagacaacac tacaacatag gtgtttgaag 300  
 acacccatca tacatgcgca tttctatggg aatcgctgaa ggtccttgca cattgttgag 360  
 ctcttacaga tcgaacatct gttctacaac tcacacttaa ctcttgctgt cttttatatg 420  
 ttgaaatcat gtatactgag agcatgtcag gatggaacac aatgctcttg gaaacaaatt 480  
 caacgtaaag ggcaagagaa gtgtttaacc tgtctgaatc 520

<210> 15206

<211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15206

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cagctatgat gaacatacag cctatcttat tcataatctn ctctttttac actggcacca 120
gacacttgat cataggcctc tctaaacaat gcctaacacg atacaaagga actattcacc 180
actaaatacg ctgagttctca catggtggta tgcaaactcat gttacactcc actcgttcat 240
actgagaaat ttaccatcca tagaatgcgc tgataaccct gatcatatga cttataggag 300
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aacttgaatg ttgttgccct caacacgcat cgtcttccaa cactacgtgg tcagggacac 420
catcttcaac acagattatt tccatacgat cactagggat actgaccatt tttgtagctt 480
aatacccgca tactttaaaa aact 505
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<210> 15207  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 15207

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ctgacctctg cgaagcattt cttccgttaa gtagagcttg gatccattgg gtaggttcta 120
tcaagaatta tcttgatatt aagttccctt ctgatatgca aagttggagg ataagtattg 180
cgtttgtatg aacatctata gaaagaagcc tgcttagctc agtcaactca tcaagtagat 240
aacttttgtt ctgtaagggt aaccaaaaaa aatctttgta tgggccgcca tagaaaaatg 300
ttcttttgcc aatagacctt tgaaagattg acttccgtta gatagatcca tgctacttct 360
ttaagacgaa atgctcaaac tattaacgtc atggcatacg tgtgctatat cattccattg 420
gatatgcagt t 431
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<210> 15208  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15208

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gtttagcga aagataaagg agaagaggtg agaggaggcg ccatccacta gagaataagc 120  
catggaagga gaagcttcac caccaagaga gtgccttgga taagaagctt agagagggaa 180  
gcttcatgga ggaagataat gagagagagt ggcgtggaaa ttgaggagaa taaggagaga 240  
agttgaactt tgaagtgtgt ctacacagtt tctcattcat canagttatg acangtggtta 300  
cacatgtntc tatttatang ctaacacatg agaagcttcc ttaagaagca aggaaggtag 360  
attccttgng aagctatgga agaaagcttc ttgagaacta gagggggcta ctccaccnc 420  
caatagctan ctaccccat gccaaataaa tgaaatacat tgggaagctc cttggaagca 480  
ggaag 485

<210> 15209  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15209

agctntaaag attttgtttg aaatgtggtg tcaattcatt tatgtggtgt gctcatggtc 60  
cattggtgaa aatcttttca atatttatcc ttcgtatgca caacattata taactattta 120  
tcaaaattcc acaattatgg ttaagctatt tatataactt aatattaagt agccatagtt 180  
tcttctaatt aattcgagct tgaattaatc tagatcctaa aacactcttg tatttaaata 240  
gctcaaatta atttgaatac catgtgcaat ttttggatct agattattca gctntaatac 300  
aagagtgtc taggcggtga agactctcaa tcaatttcaa tacatg 346

<210> 15210  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15210

tacacattaa gtntatccta tgcaacacaa gttagttaca atgaagttat tattattatt 60

atatggtcaa ggtattatTTt tattatcaca aaggaatgta gagagaaaaa agacaatgga 120  
 aagagtgaca taagaaggTt gacaaagtga gcgcatagcc aanaacaaaa atgtgaaaat 180  
 ggtaacactc cgaacgttaa taacaccatc acatcaccaa tgcctactct ttctccctca 240  
 ctctttctct tctacaaatt gccataaata anatctcgcg gcaaatcttt tctctattca 300  
 tt 302

<210> 15211  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15211

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 ttctgtgaaag ttacgagggt ggggcctatt cacacnnccc tacaatatac taaagcttct 120  
 accttcatgc ccagaatacc atgaataata ccaatgggca aacttgcctt tgagaacgcg 180  
 aacgaatagt cacttctctc tgnгааagca agggааgаag aactcgcttt gaaaagctaa 240  
 gagatggggg gggagggtac nagcggtctc catttactta cggacaccat tcgacacccg 300  
 agttaaаagc tattgccatt gaactctctc aaagcttcta attcaatacg aacgtctcgt 360  
 atataccgga ctcatccgac tccaagtaaa agtaatgtgg tcgattttct catacctaca 420  
 ttttaattct agcgttcgat tatteggaca catcgacatc cagtaaaatc atgtcttgat 480  
 tattataccc 490

<210> 15212  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 15212

aacagagata tctattctat agatacatat aattataaca atttccatgg ctctttatac 60  
 tgtttcagca ctgctgcttg ctaccacgta ctgtgtttta gctatggtaa ccaagttacc 120  
 ccatacaagt gagcaataac ctattataga ctttctgtga gtgatagacc ctaccagtc 180  
 aacattagcg tatgccttga tggttcatac tgcggtatct ttgtgttacg agaagacata 240  
 tgcatatgcc cttccttctc aagatccgat atactacctt taggtagtct tgataggag 300

aatgtgtgag atgacttact aaacttacct ca

332

<210> 15213

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15213

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tcaagcccct actttttgagg ggcaactccc accttatgaa gactatcccg ggccagacga 120

tggggaagga gatacccatc ttggccccct cctccacctc aaagatccat ccccgcatga 180

actaccccag ccgaacatag tccgccatat cccggcctca cccacgcctg tgaaagaatc 240

tgttcccttt gcggagagta gggaaagatt gggcgcttga agaaagggtg anggcgtcaa 300

ggcctcgga ttaccattc tcggattggc agattatgtc tgtaccaaca tcgtcatcct 360

ccanatcaag gaccagactt gataatacaa gggcaaca 398

<210> 15214

<211> 143

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15214

acacacccat tctaaaacta agctcacctt cttgagaagc ttccttgaga agctagagct 60

tagctacaca caccatcta anaactaagc tcacctcctt gagaagcttt cttgagaagc 120

tagagcttag ctacacaccc cta 143

<210> 15215

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15215

agctntcttg ttatattatg tggttcaaga acaaaatgaa naataaacia acaattaaac 60

aaaaaagaat aattgtgtca ttcttttaga gaggggtgtg gcagtaaaga aantttttca 120

tgtttaagaa tcttggaat gaataaaatt tgttgattga acattaaaag tctctagata 180  
 agttctctag gaatgacaaa attacacata ttcttatcga ttattttaat tatttattat 240  
 attatatatt ctaataaaaa ataatatgat attcttatta taaaaaaatt aaactcgaaa 300  
 tggttaagatt ctcaattctt ttatgagaaa gctcttggtg aacattaatt agaaaattct 360  
 cccagaanag taatttttat tacatatgtt catgaatttt ttaattatgt tcttct 416

<210> 15216  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15216

acacatgttc accatttttt ntatacaaga accttaaaat aggaaataaa aataagcatt 60  
 tttgtaacta tttgtaaaaa aacagagaat ganaaataaa ctaactntct tgggtgtcaat 120  
 gataaactct cagtttgata aactacatct gctcaccagt ttttaaaca gtctttaaaa 180  
 aatataaata ggaaataaaa taaaaatgat gccatctttg taaatattta taaaaacaga 240  
 aaatggaaac aaaaatattt ttaaaaatca catatgccca tagctactaa gataaaggct 300  
 caatggttnt gtatatctgc tangtataag aaaaacttnt tattatccgc tntttctacc 360  
 aagcaataag tagaaacaat tagcatncta nnattacatc aagtctcttt acaattatga 420  
 aatattaaaa atctaataccc tctggctctt ctctctttct ctctctatc 469

<210> 15217  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15217

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 atgaaagtta tttatttgac ttgttatata aaataccaat atgcatgtca acaaaccocat 120  
 aagccgaaat aggctaaccg gcctaaataa tccataaggg ctcatctact aacttattta 180  
 atattttgta aagttacatt gataatataa agacttaatt ataaaaatag tcttcttatt 240  
 tttttccaac ttactaaatt agtctcatta tattntaatt cactattaga gtctttnttc 300



aaattgatta tttgtgtcct cagaacaaaa tttagacgtt gacgattaag aagaaacagt 360  
gaccaccatg tgtcattatc taattgggtg gtagaatgat gaatganaat taatgatc 418

<210> 15218  
<211> 78  
<212> DNA  
<213> Glycine max

<400> 15218

aagtacctgt gtaatcaata ggatgtaact ttatttgtga cccatgaaga ccttaaaaag 60  
ggtaagttat caataaac 78

<210> 15219  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15219

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cttctttgat atagtgcgaa agtactggag ctactcttta ccattgaggt tgtctaattg 120  
tgttggacat tggtagtcat catatgttta gtttctagac gtgtctgtaa ttgtaaattt 180  
accttgtttt gccaacataa attatcatct gatttctata attgcctgct tactcttctg 240  
atatatgctg agctactagt atttatatcc tctatttgag ttcttgagaa ttacatatgc 300  
tcctgttcgc ttagtctgaa gatttcattt tgtggctcca taagtcatac atttgaatcn 360  
cttgggaacac atgtatttgt tacac 385

<210> 15220  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15220

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tnatgattgt gatgcaatcc cccccccaa gggcactgga tagaagactc caagaagatt 120  
gagccagaga tgcaagagaa ggccctatga ttctcatgag ccttanggta gatttcgagc 180

ccatgggcta agtacaagcc cacttatctg tgtacatatt agattaatgg ttcattattt 240  
 ctgggngttg tatttatggc tccataatgt angtagggtg ccctagaaat gtaggatnnt 300  
 tcacccttgt attt 314

<210> 15221  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 15221

agctttatct tatattgtca gatgcagcat tgaggatcag agatattaac tatgggtccag 60  
 atgtgctcat ggaagaaatt gaaaaataca agacgtatgc cgagagggtg gagcccttta 120  
 ttgctgatac tgtgcttgtc atgaatgatg ccatataaca aaagaagaag atttttgttg 180  
 aaggacgaca agctaccatg ttggacattg attttcgaac ttatcccttt gttacttctt 240  
 ctageccatc aacaggcagg atatgcactg gtctaggat tgctccaaag gtagttggtg 300  
 attaatatga gtggtacgtg gatatttatc tatttctttt tta 343

<210> 15222  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15222

ttcctatgat ttcatatcta atcaagaagt ccctttccaa acaagagaat caatagcaaa 60  
 caaactgtgc ctattttaga agaaacctta atcaagtaaa taaaatcaaa atgagcggtta 120  
 taatttcatt ataaagtagt caaagaaacc atataccacg taatgccaaa gacgctacca 180  
 agtgatcttg aataattntt ttcctttaac cagtgcacga tgttgaagat aatgttcaga 240  
 actntgaggg caaaacagtt aatagccaag ccaagccaag cttatatatg tntatanntg 300  
 taaacaaaat canaaciaag ctggccgata aattaaagaa gtacgtcatc ttaaatttga 360  
 aaccggatat attgtanagt gatcgaccac caagctctag tntaatagta aatgaagtac 420  
 tataactnta cagaaaatca ctntgaatct gtacaattat 460

<210> 15223  
 <211> 433

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15223

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gcacaacaag ctttccacat ccacaatgcg cgcagaaacc caccattccc tgttgccac 120
cttcaactga gtcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
cccatcaat actctcaagc ttccacaaca ttcaagcaaa acaacattca aacagcataa 240
gctatcacia ccaagaaaaa cagagcgaag gcagaaaact ctgctcaaca catcaaccaa 300
aatcacagct tttctcacgt aaagaccaca gtaacaattt cttcgatcca attcggtaac 360
cgttggatcg actccaaaat tttactggaa gtctatagtg cataagccta cattntgacc 420
gttgggatct act 433
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<210> 15224  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15224

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ttgctngctc tanatctaca ttgatgttgg tatttattgt aggaggttgt atgccatttt 60
tgttntaagg gtagcatttc ttggtaaaac taactttcct aatgtttgcc ttcgcacgat 120
atggccccga ggaagcttgt ctcaaagagg tccaggaagg acaaggcggc cgaaggaact 180
agttccgctc ctgagtatga cagtcaccgc tttatgagcg ctgtacacca gcagcgcttc 240
gaggccatca aggggtgggc gtttctccgg gagcgacgcy tccagctcan ggacgacgag 300
tatactgatt tcctggagga aatagggcgc cggcggtgga catcactggt tactcccatg 360
gccangttcg atccagaaat agtccttgag tttatgcaa tgcttggcaa cagaggangg 420
ngtgcnaca tgagatctgn gtanggggta gtggatccgt tgatgcgacc tatcggccag 480
ctctggatat ccgtagtgtg 500
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<210> 15225  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15225

gcaacgcatg aagagtttaa tcaatttaag agaaatgatg tatgggattt atctcctaca 60  
 ccaacctctc acaagtcaat cggaaccaa tgggtgtttc gaaacaaact tgatgaatct 120  
 gacatcacat taaagaataa atcaagattg gttgcaaaag gatacaacct agaagaaaga 180  
 atctgctatg atgaaaccta tgctctagct gcaatgttag aagctatacg attactactc 240  
 tcattcgctt gattatgaat ttcagactnt gttagatgga tgtaaataatg tcttctcaat 300  
 tatgcattga gaaaagtgtt gtaatcaacc acttgattga gctatnaaca tctaccatgt 360  
 taaaacaaca aatgtcttta tgttgaacat cacaagtct 399

<210> 15226  
 <211> 577  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15226

caactcccc ccttcctttt aatgatctat atgttaactn tcccnncann ccgagggttg 60  
 atctgaaccc catagcacct aanatctcag ctctgtagtg aatcggtgca gcactccctt 120  
 agagtctttt acgatgtgga tgctgagcca tggtctcgga atgatcacga tcataaagct 180  
 cataatcaga atgcctctaa ttataatgct ccctatcacg atgttcaa atcacctataac 240  
 agaatgcccg attctcacgt tattgaatgc tgcaaagat caataagtat ataagatgc 300  
 cttactaatc tatgagatgt tctatctatt ctatgataca aggggtgaag atcaatagat 360  
 tgctctact catacactta cattagcatg ctcaacta gattgccttg tcatgcttaa 420  
 taacggtgta tgtctgaact acagcaactc cttaaagata ttctaagac ttgagattct 480  
 gcagcgtagc cttatttgat gtgaaatagc catacacatt ccaccaa at ttaagtctac 540  
 ttgtaagcta aaatgcaggt aggatattaa tgatacn 577

<210> 15227  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15227

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aaaaaatctt tagaaacaag tcaattgaag aattgtgact cttggaaatg tatttttcga 120  
aatcagtcac tggtaatcga ttaccattaa ggtataatcg attacacatc aacaaatgtg 180  
actttttcat ttgaattttg aaaattaaaa tgtttagaag ctctcgtaat caattacaag 240  
tggtgtggta atcgatacaa gtgttgtgta attgattaca ctagttta 288

<210> 15228

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15228

tggccttgn gctatcttca tgagccttag atctcagctt gctgttagtg ttctaagaga 60  
gaaggtcang tccagagagt tntagagatt ntgctatgta agatctgna aaccngagct 120  
tgaagcggaa gctgtctgag agcttgagat gagtntgtga agtggtgaaa atcctagagg 180  
tgaaagagac atcctcacca cttngatnln nttgtatctt tttgcatgtt cttctcnttt 240  
gtgtaatgaa gcttctgtt atggcangct aaatcctctg tggatcttct tgtangactn 300  
gatgtaatat cttctatcta ttaatgatgt ttgtgtgtct ctgactctag ctttcatcta 360  
gatgcattac ctgacatgag atcatgcttg tanggtatca cagtgaactg tctatctatg 420  
actgatngca ggctagtgca tatatacaga tcggacatat ttatgatatc tg 472

<210> 15229

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15229

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agtttgatag ccaccgtttc aagagcgccg agcaccagca gcgcttcgag tccatcaaag 120  
gatggtcatt ccacagagag agatgcgtcc agcttaggga cgatgagtac acagattttt 180  
aggaggagat agctcgccga cattggacgt cgctggtcac tcccatggct aagtttgacc 240

ctgatatagt cctggagttt tatgctaattg ctnggccac agaaaagggg gtgcgagaca 300  
 tgcagtcac 309

<210> 15230  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15230

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 tgcagcatca ttgtgatgtt cccagccttt gatgacagct atccagggtc tgctatccag 120  
 tgatgtgagg aatgccacca tccttgctct ccagtattca tagttggtc catctaagat 180  
 tgggtggtctg ttcactgggc ctacttcttt ctccatgttc atcagaatat atctccctag 240  
 atctactct 249

<210> 15231  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15231

ggtgtactgt taatacattt ctgaacgctn cttatattat gctaagtagt gtgtggataa 60  
 aacaaattaa aattcaaagg tatatataat agatggaaat ttaattattt taactaattt 120  
 attntatata ttatttgaat aaaataattt aaaatttggt tttaaaataa tttgatgatg 180  
 tgtaaaataa aaataacatt ctttaaaaaa atgggtggat taattatgtg gtcaactcat 240  
 caattca 247

<210> 15232  
 <211> 204  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15232

atgcagacag aaccaattca aacacatatt gaattcagtt aggtgcgcta acctatgggt 60  
 nggcgtcaaa tattcagaan agacgcagaa gctacttgac ggagcttcga tcttacgcgc 120

atcanaatat tacgttaccg gtaacaaaca tacagtagag agagaacaga gaagcatacc 180  
tagaaatcgc agagagataa caaa 204

<210> 15233  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15233

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ttctcttgga agtactctaa aattgttttt gtttccatct tgaatatgtg atggaatctt 120  
acctaattca taacctggag catntatagt tttctctaatt atttctaatt gcctgcataa 180  
tcaaagctcc aatctttcaa gagctcactt cctcttgaga tagagctcta tcatttaagc 240  
cagccttcaa agcattcagc tcctttttta tattctggac ttttctagca ttagcttcac 300  
catttgaaaa ctccaatgct ttatacactg t 331

<210> 15234  
<211> 523  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15234

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gaatgatctg cataactgac attttctcat agtgccctggg gcctttgctg aacgatctca 120  
ccattcttcc tttcttttgg ggtctgctta ctactatacc cctggtttgc tattcgaccc 180  
ctacccttac tattatctnt cattgcctaa cagatacatg ccanacataa gcttgaacta 240  
ctttattttt gggaagaggc tgcanatact ataccaagac atgctgtcga agtcttcggt 300  
cttatctata gtgtgaaact tatgaaacta ngagtgggtat gtaatcatat gtatgcanta 360  
gactagatga tactatcagg aatttgtata ttcatttaac gatatttgag cattggttga 420  
tgaagcttac ctcatcaaaa tctagatacg gttgacatgg agactaagac atcaacgtct 480  
acttatgcta ttcgatcnga agttactttg ctacacaaca ttg 523

<210> 15235  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15235

anatgcaatt catggggctc cgaaaaatgg ttgaggatgg agaatcgcac taagaaatca 60  
 ctacgcatgg ctcccaactc gtgggtggag gacgcatgaa cgaatacgca attcatgggg 120  
 ctccgataaa tggttgagga tggagaatca cactaagcaa tcactacgca ttgcttccaa 180  
 ctccgtgggtg gaggacgctt aacgataacg ctatcatggg gctccaaaaa gggttgaaat 240  
 ggagattaca ctaaccatca ctacgcatgg ctccaactcg tgggtgatgc ncatgaacga 300  
 tacgcattct tgggctccga aaatgctgaa atggaaaatg acttacaatc ctacgcatgg 360  
 ttcaactctg gtggggacta taaccaaccc attatggggtt cct 403

<210> 15236  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15236

gagagagaga nagagagaga gtggcttatg atatngaacg agatatatga gagaagttga 60  
 actntgaagt gtgtctcata tgtttctcat tcaacanagt tgggacaagt gttacacatg 120  
 tntctatnta tagcctangg cactaacggt gtgaatntca ttctcatttc atgtgaacct 180  
 aanagggata ttccaagaat atgccaaagg cattatagta tattcccttt aaatgtcaca 240  
 agcatggaag ttgtggctct agcacat 267

<210> 15237  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15237

agcttcgcac ttgataacgg agaacacatg agcagcgcta ggcaatgaca ttcatgggtgc 60  
 tcccgaaaaa ggtggagtat ggaggattgc cttgagggtc cgcacttang caatcatgaa 120



actcagctcc aaactcgaaa gtggaggaca cgtgaacagc cctaagcaat aacattcatg 180  
 tgactctaga aaaggatgag aatggangat tgccttgagg gtcctctctt angcnatcat 240  
 ggaacatagc ttcaaactcg aaaatggagg acacacgaat gacaatgcaa ttcattcatg 300

<210> 15238  
 <211> 210  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15238

tactctagtc aatcacattt ctgtgaagtt cttctttggt catccctttn ttgcattntg 60  
 cttattcttg ttcaaacaag aaactcattt cttgtgagta aatctgatct tggcacaaca 120  
 aactggtgcg gtgaacgtgg ataattttgg gctcgattca agaaatgggc tcggccaagt 180  
 atgaggttga aaaattcata gggaaaaatg 210

<210> 15239  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15239

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 taatgaattg tcagacgtca aatganagtt tgaaagagca attgagcaag acaaaaaaga 120  
 atatgttgat aatcattgat caatataaag aaaagggtgaa cctagctgct attcataggc 180  
 aggtgctgag agatgaacag gcgatggtgt catcctatca ggttgaaaga gaggcaaggg 240  
 aagacgtgaa agttattgca tgaagaacgc atgaagtgga tggatagggt tgctctcact 300  
 ttgaatgaaa gtcaagagct tccatagctg ttagccaaag ccaagactgt ggctgacaca 360  
 tactctactc ccgatgaagt tcatagtctt ttcaattact gccaacacat ggtcgaacta 420  
 atgaccaca t 431

<210> 15240  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15240

tcttcttaat gaaaccgta anaaggcact ctntaacatc ctttgaataa gcttaatggt 60  
nntgtgagca acaaaggcta aaatgattct tataacttca agtctagcaa catgaacaaa 120  
ggtttcagag aaatctataa ctttntgttg attatattct caagctacta acctagctnt 180  
gttgcatact acttttcctt gttcatccaa cttgtttctg aagattcatc ttgttccaat 240  
ggtgctcttg ttntctggca ttggaacaaa tgtccagaca ttcattttgt taaactgatt 300  
cagtttttct tccattgtga ttatttagtc attntctatc anagctntgt ctatagtntt 360  
aggttngatt canacacatg ngctttaatg atatctagtt taactccttc ntctaattctc 420  
agatatatga tcttat 436

<210> 15241  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15241

agctttgata accacacgaa tagcgaattc acattcactt agaacatctg atgaacatat 60  
agctgtaatg gctccaacaa agtctctcga aagagttgaa gcattcttgt atctataagt 120  
gctggtttcc aagctttcct ttggtatgaa ccttgccgaa aggactgaa aataatccaa 180  
tctctgtgac gcaggccata attgagcttg actcttgcca acttggttg atcttccaac 240  
aaatacccta tcatctttct gtcaacagtg atanagtagg cttaaattct gaaatgaaat 300  
tctatattnt gaatcagcat gttttcatct atgaattgat ggaacagaaa ataacctgaa 360  
ctggactgca ttgattcat ctagatataa cttttcatca atctctaagc ct 412

<210> 15242  
<211> 291  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15242

ctacaccatc aggactcgag aggaaattgc aacaattcta cacaagaatc tcaggaaagc 60  
acaggagagg atgcagtngt atgctaacaa gaatatgata gacaaagaat ctgtagtgcg 120

agatcgtgta tatctgaagt tacaaccatt taaacaacaa tcaataccta acttagtggt 180  
 tcacatatta gccaatgac attttagcta gaagaataaa gaatagaggc aacatgctgg 240  
 ttacagaagt gctaatacat tgtcaacata ccacaccaga agaagctaca t 291

<210> 15243  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15243

agcgatgctc tagagatcct ctacaggcat gctgcctgcg tccagccgct tgatatattt 60  
 gatggactca tggtcactat gaatgacaaa ttccttgga taaaggtagt gttgccatgt 120  
 tttcaaagcc cgtactaagg catacaactc cttatcataa gttgaatagt taagggtagg 180  
 accacttaac ttttactaa aataagcagt tggatggcct tcttgcatca acacagcccc 240  
 aatcccaaca tttgaagcat cacactcaat ttcaaaagaa ttttgaaagt ntggcaacgc 300  
 aagtataggg gcattagtta gctnttgctt aagaacattg aaagcttctt cttgtttctc 360  
 ttcccatttg aaaccagcat ttttcttgag cacttcattg agagggtgctg ccaatgtgct 420  
 aaaatccttc acaaatcgtc tataaaaaac 449

<210> 15244  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15244

aaagagaagt tctgaaactc atcacgttgt ctaaaaaggc cttgagggtg atccaagtgc 60  
 tctgatcatt cattagcata ttcattgattt ggtggcatgc tcaccactgt ttgtttcttt 120  
 agggaaactca ccataactaa naaagcgcan aggcaccctc ataacacctg atccaaaagt 180  
 aagatggata acgaagagga agtgcaagaa caaatgaagg cgcacatggt ggccttaaaa 240  
 gattagatgg cttctatcac ggaagccatg cttaaagattc anaaatcaat agaagataat 300  
 gctacggcag ccgtttccaa tacagctagg gaagcggaac cgggtgctaca gcccgtaata 360  
 aacttnggcc gagatagana tgtgacgggt ttcaatcgga ggtatagtcc tcaagcctac 420

ccttat

426

<210> 15245  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15245

agcttgaatg tccatctcct tctctntcac tcttcattnt catgactagg aaggattcaa 60  
gtttctagct caaccacac tatcttcttt gcttcattga gtcaacaaag agttaaggga 120  
gtagtatttc atttcttagg acccgtagt tggtgctagg aactcgaact tcattttacat 180  
gatgatntg tatgtttagt acaaatccca taactctgta attgtggtac tgtgaatact 240  
gcgaattgaa tttgtgaatt tggatcaatc tgagncattg ccctaanacc taagaagcta 300  
catgatatgc tattggattg tgtacttgga aataatttta agttaagcaa tatatga 357

<210> 15246  
<211> 214  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15246

tattgcatta ctttctttaa ttntttaaat actgctcaag gggttccac gaactctaac 60  
agaataaagg tcatttctga gtgaccact ccaccaatta taaaggaaat ttggggattc 120  
catgacttaa caaactttta caaaagggtt gtcccatatt nttctatacc ttgagcacc 180  
ctcattgagt tggagaggaa ccatgttccc tcat 214

<210> 15247  
<211> 505  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15247

nttgaaacct tgaatcccct taacnccgtg gaaaaagcga gntntogaga tattcaggct 60  
actaatgctg catgttgta agaattctca tcacatatat atatgtgaat gttgaggagac 120

tgaaaataacc ttagatatga atgatatagc aaaaataacct cacataatat atatatgtat 180  
 gtttgggtag caagataacct tggatatgca tgtatataac taanataacct cacaaatata 240  
 tacacatgtt taggtagcaa nataacctata tatatatata tatatatgtg tgtgtgtgtg 300  
 tgtgtgtgtg tgtgagtgtg tgtgtgtgac ncccacttat atatcagata tcttcttagg 360  
 gtctagtaaa ctatatatat tgtatgatcg ctgcttatat cttgattatc atatatccat 420  
 atttgggtatc atctcttctg taagacttta actaatatat tgacttccta tctcttgact 480  
 caacttcaag actcattttt tctcg 505

<210> 15248  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15248

tgtgcttggg tggttcatga tgagcangtn tgaaccaata cttatagcan atntattatc 60  
 acagaataac atcatagagg gcacatcaac ttcaaagtga agaagtaact tgcttaacca 120  
 aacaatttca ctagtaacag aagacaagac acgatattca gcttcagtgg atgattttaa 180  
 atagtgggtt gtntcttaga atgccaagaa agaagttggt tcccaaaaa cacaaaagtc 240  
 agaagtggat cttttggtat caacacaact 270

<210> 15249  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15249

agcttatgca tggaatatgt aattatgaaa ttgagatgcc cgaagataca ccatttccta 60  
 gttaaccatg cattatgtac catgttcaat tattttgttt ttaagtgaaa tgggttttatg 120  
 atcccaacat ggttggctcg tggtcctaa cacatgaaac taagaatgta gtgtgaaatt 180  
 tcacgcttcc cccttttttg tttntgtttt gtagaggaaa acgcaaggat gagcaaacat 240  
 gataacaaat ggtatgcaat tntgcagatc anaaagtttg ttgaacgcat atgcatgatg 300  
 atgccatgac tcatgcaaaa tgtgaggccg gaatatgata acggacaaat gcaggatatg 360

tccatttatg atgtatgaag agatgcttat gcgatgcatg atatgaatgc attntacgga 420  
ca 422

<210> 15250  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15250

tactcagctt ttatccaggc tcatcttggg ggtgaagctc tntnttccat ggcttattcc 60  
ttaatggatg ggcctcctc tcacctcttc tcctttgtct tccgctgcat ctccatgggtg 120  
aaaaatcacc attgaaggac ctcatgaag ctcanagatc cagcttccat agaagctcca 180  
caagcaagct tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgctccttaa 240  
aacctccatt aattttttct tttgccttct ctccattgtg tgnttcttaa ttnttctcca 300  
tgtatctcct cacatgtctt gttctaaatg ttgttaacat gattctttag agtntccacc 360  
gattaaactt gctatagaag ttagattnga ttntctatgg ttcanatttc ttgttcttgt 420  
tcttgaacca tg 432

<210> 15251  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 15251

agctttacgt gtgtccaagc gcagtatctt ctgcgttttt atcacaaact gataaaccat 60  
ccacaaaaat tgatatttgg tgtaaatttg ttgcattcat ataataatgc tggacacttt 120  
cggaatgaat gagcttatga gcatctgcta aatatgactg cagtgtgttg catatctcaa 180  
tggatgacag ttctgtgctg ttatataaga actgtgcagt aattattctc ttttaattggt 240  
actaaattta ttatcttttc cagctatata attatatatt tatggatgatg atattatatt 300  
atcattaaaa catgcattca atcttggatc ttgcatccac gttgccacc ttagttatag 360  
gtagttcact tctccagcct attactaaat tct 393

<210> 15252  
<211> 172

<212> DNA  
<213> Glycine max

<400> 15252

tcacaaaagc ttgaaggcat gtaaccact atcttctcat agtagaacac cggtaatgtg 60  
tctactatca tttttatcaa tctcctttcc atcattggag gtgctacttt gagcttcaaa 120  
tccctccacc tttggccgta ttctttgaag gattcattct cttctttcac at 172

<210> 15253  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15253

agcttaacat acatgttagt ttgtgaggta catctgntag cttatatatc tgtttgccaa 60  
ttttaagctg aaatctaacc gttacaactg tctgagactg tagttttaaa agttattcga 120  
tcttatgttt gagtgggata gctagatgaa gtcccttgta tgaccgaagt tgttttcatt 180  
gtcaacgctg caattgatgc cttttctatg tttcatgcag catctatgct taactggagt 240  
ttgatatctt tgcttgattt gatggcattt cttttcattc agtacactgc ttctagaaag 300  
ggtgagaagc ttgctcttat ccttgctatg tattcttaaa tacatgaatt ttcatgcctt 360  
gtacttacac ctaaagaaac cagaggaaca ataaagggaa ttggtgatgc ccatctcaaa 420  
tttatta 427

<210> 15254  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15254

ttctggacat gttgccctca ttgaatacta gatatcaata tgtcaaaacc attttaaatc 60  
ataccatacg ctgtcaacat tgntctaaat cctttacagc tcatgatatg gngaaccaca 120  
atgtgccacc aggatactgg gcaccattta ataaccagaa agagccttca aaacatgcat 180  
cgtctaaaga agcatcaaaa ggctatggtg gaaaatcttc tggtagagaa caggagggtg 240  
tatccatgtc aaaatgctc 259

<210> 15255  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15255

agcttgctac acaaataacc tgtgattgtg tcaatctcct gtgattgtgt gtaggaacaa 60  
 ggaagtanga actattagcc tatgtgacat ctggtaaata accagattga gatagtttgg 120  
 tgtggccatg actatagttc taatagcagc catgatatta anagtccctt tttgcaacct 180  
 aaattcagtt tagttaaaaa acattcagtt cccttctccc taattttgat ctcatgtttc 240  
 cacttttttc tcaatctctc ttcatatctg atttatttaa tgattcactc ttcatacct 300  
 gtctgactgt ngaatttct 319

<210> 15256  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 15256

atctagtcaa gttcttagag accatacaag tttcctaacg atatctaatt atgtgggcca 60  
 ttaagtctat catatgctga caatagccga gaagcccatg aatctcttcg ggggcggagt 120  
 aggtgtctgc catcgcttg gccttggcta acaatcggcg aagttcttga ctcccgttca 180  
 aggtaagagc aaactgatcc atccacatgg ttgcctcttg gtgtaaagag tcgatcacct 240  
 ttcctctagc ctctttttcc gcgtatactt gggcatattc gtcccgaatc ctatgctcgt 300  
 gggccgcggc tagacctaac tcttcttgga ct 332

<210> 15257  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15257

tcatgttgct ttctctatct ctaacaaaaa cttattcaat aatttaacct taanaatcta 60  
 cgtgtttcta aagaagtgct attgggttcaa atttatatgt tattgggtctc taccaaagaa 120



gtgatccctt tttttattcc caaaatgtct ttcccacgga atcatgattc cattgaataa 180  
aatgcgtaat aaaatcgtga ttccattgcg caattatttt tgcaccccct caacacaaca 240  
aaatcgtgat ttagttgtat aatgtacaat ataatcatga ttntgttcga tattttttta 300  
tactctaga tataacanaa tcaaaaatcc cgttgttttt tttgcacca cttaacacaa 360  
cggaatcttg attcccgtat actatntttt taananaaaa taaaaataca ttttaagttt 420  
ttattgattg acactac 437

<210> 15258  
<211> 536  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15258

tgggacatga ccccttagtt ctgtgcacta ttaataactca agctaagctc cttcactgcn 60  
canggctcta atatttgaag agtatccttg tggaaccttc acccgacana gacactgann 120  
aaaacttata ttctnctttn tggacanagt atgagaagct ggnnggcaag taaatttctt 180  
cccatcagac cttggatgca actatgatcg tatccccatc ttagctagat cttgacgggt 240  
atntgtcgca natgcccttn tgcgggcgtg tgaggcgagg ctcacgtgtg cgctttcana 300  
ggangaaaga tgcgcggagt cgccaccaac gtctatgtgt ggaanacgtc tganaaacca 360  
naggataccg gtcaaaatga nattctaagt tcgggaatng tattacgtnt gaggaagggt 420  
atacacctct cacgttnget caangggaca cagctcattt ttagaatngt ggaatngtgt 480  
actttacttt atttctnntt atatttaggt cacaaagcgg gctttgtcta ctacnn 536

<210> 15259  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15259

agcttatgtn gcttcttgtg tcatatgaca ttccactcct ggtaataacc ttccctgtcc 60  
ttccacatta acattaaatg cattntgtcc tacttgtctt ttccctttag cacaaaanaa 120  
aaaccttatt gaccctagaa ctgctcccat agctattggg ggtgccgggt tcggtgaatc 180

aactccaagt gaggtttatg catccttctc cctctgtagc cttcttctcc acccactca 240  
 ccttctagcc attccattgc ttttgagcca cccccctcta cagtgtcgtc tgacaactgc 300  
 tttgatgctt cctcataatc cttaaaacaa catcttgcac cccatgtcta tggntcttct 360  
 tacaccatgg ttaccaccaa anagcctcct ttcacactga ctctttaaat aaactac 417

<210> 15260  
 <211> 64  
 <212> DNA  
 <213> Glycine max

<400> 15260

gtgggatgac accgactggg atgacattct cttgcggtat tgcatatgtg gagggatgaac 60  
 gtgt 64

<210> 15261  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15261

agcttcanac ttgcatcana ggagttgagc aggtaaaaaa gattcgtctt caaactctta 60  
 gaggtgactt tgagcgtttg tttatggagg agtccgagtc aatttctgat tatttttctc 120  
 gagtattggc cgtagtcaat caacttaaaa gaaatgggtga agatgttgat gaggtgaaag 180  
 tcatggaaaa aatacttga actttaaatc caagctttga cttcattggt accaacattg 240  
 aagaaaacaa ggatttatag accatgacta ttgagcaact catgggttcc ttacaagcat 300  
 acgaagaana acaaaagaga anaattaaac anaaggaggc tacngagcaa ctactacaac 360  
 tcaacgtaaa ggaagcatat tatgcaaatt aca 393

<210> 15262  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15262

gcatgctagt caacctttac cttcatctgt tttacaggtt acaggttgca cactttatgg 60

tggagctcat gggtcaggct tctgtattcc cactgaagaa acatctcatg aagttaatta 120  
catgggaaac cagcctagac aaaattntaa tgcagggtgga ttttctggat ttcaacatgg 180  
ccaaccttac cagcagcaga ataaatggag aactcaccct ggtaatcagt tcaataaaga 240  
ccagggtggg ccacctaaca ggccacaaca acaagggcct agcttatatg agagaacaac 300  
aaagctggaa gaaactcttg cttagtttat gcagggtgtca ttgactaatc ataagagcac 360  
agagtc 366

<210> 15263  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15263

agctntcaat gcacaaattc taaataatta tatgaagact ntgatcaatt tcaattatga 60  
tattaattnt ttttaattat atataaaaac ctagacagca agaaaaagag aaaatacaaa 120  
atcaatatct ctctaaattt ctcttactt tatttcatca attcatatta attagaaaaa 180  
gtactcgatt tatagggttc acgctcaaca caatagcata tcaatttcac aacaattggt 240  
ctggcacaaca tatataattc actggaataa ttataaggga taaatgaaaa tggaaaaaca 300  
ccccaaaact cattccaatt gatctctcta aagatcccta cacatgttct cnactaattc 360  
caattgtgaa taactcatcc cttacctcta aacgggatca cg 402

<210> 15264  
<211> 211  
<212> DNA  
<213> Glycine max  
<400> 15264

gtgagctaag ttggaggtgg gcaacagggg atgggtgggtt tatgcgcgca ttgtggatgt 60  
ggaaaacttg ttgtgcacca tcgcccgact gccacctagt accacatgtg atgggtaccc 120  
cataatccta caagcttgag atgaggaagt gttgaagggt gaaacttcct gcttttattg 180  
ttgaccacag agtcggacct ggagatatgt c 211

<210> 15265

<211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15265  
  
 agctntgagg ctatctatgg accattaact tctaataata ttgcagattc ccaagaggggt 60  
 ctggaacgga ggaatttgat acaagccaat gcaaaaacga ttagactatc aactatcttt 120  
 gcaactcttg atagacgtct gataggggag aatgaacaac aagctattaa gtggctactt 180  
 ctttcaagat cattgccttc ctttattcct tttcaaaatg tttctgttga accaaacttg 240  
 aacgtctgat tctaccctag tttcagagga catcaaactc tggaatggaa aacctgcaac 300  
 anagtttgaa gaagaaaagt ggatggtggg actcaagtcc ttgatacctaa gatgaaaaag 360  
 ctcaaactaa agaagctaaa tctacttaat ctct 394

<210> 15266  
 <211> 277  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15266  
  
 ctgatcttta gcttaatgag gcctttatgg gatttaccat ggaatcacgg agataaggaa 60  
 agaggagaga gatataccta ggaataccat ggaaaggact tcgcacccaa atgcttgata 120  
 aactcgaagg tgttatggag aaanaaaaga aaagaagagg gaccaaata gagaagagga 180  
 aagtgcttga tgggtataac ttattttaagt caaaggtcct cttttatgca gactctgact 240  
 ctgactctga ctttgacttt gaatttgact ctgacta 277

<210> 15267  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15267  
  
 agcttgtatg attatggtgt acccatcaca tgtggtacta tgtggcggtc gggcgatgga 60  
 gcacaacaag cttttcacat gcacaatgcg cgcataaacc caccatgcc ttagccccac 120  
 ctccaactga gtcacgtac ttccacgtag cacatatacct cngttctcat aacaccgggt 180

cccatcaat gogtccaagc ttccacaaca ttccagcaaa acaacattca cacagcacia 240  
gctatcacag ccaagcgaaa cagagcatag gcagtagaac tctggccaaa caccaaccaa 300  
taatcac 307

<210> 15268  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15268

ttgggccatt gatnccatt catnanncna cactatagan tactcaagct ntgcattgca 60  
ngtagttctn gaaaaagaaa ggtccaagtt cttgagagtt ttangangat ttgctgtgtg 120  
aagatctgca gagaccngag cttgaagcgg aagccgttct gagagcttga gatgagttag 180  
tgagtgcgtg tgagatccca gaggtgaagg tacatcctac cacttgaatn ttcaatcttt 240  
catctgtctt ctcttgtgta aggaagcttt tgtatggaag cttaaatttta tngatttctt 300  
gangtactga tgaaattctt tatcattaat gatgttggtg tctctggcat atcttcattt 360  
atatgcttac tgacactaat gctctttag gcacacatga actgctattt atactgtagc 420  
aggctatgct catacagatc agtgcaatta tgattgtgtt 460

<210> 15269  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15269

agcttcatta gatgttgcat ttcagtatca gttcctctaa tggaagaacg atatgcattt 60  
cttgcatat aaatntgttt gattgtagt caacagttgg cattgtgctt cttcaacggt 120  
tgcaggatgt tttttggttt caccatagac tntgtcatat caacaataat tntcttttca 180  
tccttggtca atttcccaac gtatggatgt ccaactaagg acttggccaa ttcattgattg 240  
tgaatcccat agatcaactt caccatccaa ccttcnctc catgcattgg tttccacga 300  
agcctgaagg gacaaccaca tttcctactc tcagtgtctc ttctaacaaa ttttttctt 360  
ctacattat actgaccact cttttcacia ccaattaaca caaatgaaag tcttcctcta 420

ctaccagtat gtgtgtcaga cctcat

446

<210> 15270

<211> 239

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15270

cctcatcagc anaaccaaca actgcagaat aattatgatac tttcaagcaa canatacaat 60

ccagggttgaa gaaatcatcc aaatctgaga tgggcaattc ctccacaaca acagcagcct 120

gtccctcctt tccaaaatgt tggttggtcca agcaagccat atgttcctcc tccaatacag 180

cagcagcaac tgcagcagtc acaataaaga caacaagcaa ctgaggctcc tectcaatc 239

<210> 15271

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15271

agcttatgca tggattatgt aattatgaaa ttgagatgcc cgaagatata ccatttccta 60

gttaaccatg cattatgtac catgttcaat tattttgttt ttaagtgaaa tgggtntatg 120

atcccaacat gggttggtcg tgggtgcctaa cacatgaaac taagaatgta gtgtgaaatt 180

tcacgcttcc ncctttcttg tttttgttnt gtagaggaaa acgcaaggat gagcaaacat 240

ganaacaaat ggtagcaca tttgcagatc anaaagtttg ttgaacgcat atgcatgatg 300

atgccatgac tcatgcnaaa tgtgaggccg gaatatgata acggacaaat gcangatatg 360

tccattatga tgttatgaag agatgcttat gcgatgcatg atatgaattg catttacgga 420

cacg 424

<210> 15272

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15272

tcttatccag gctcatcttg gtgggtgaagc tctntattcc atggcttatt ccttaatgga 60  
 tgggcgcctcc tctcacctct tctcctttgt ctcccgctgc atctccatgt gtgaaaatca 120  
 ccattgaagg acctcattga agctcacaga tccagcttcc atagaagctc cacaagcaag 180  
 cttccatcaa gtggtaatca gagcacaaga agcttaagta ggtgctcctt aaacctccat 240  
 taattgttgt tctgtgcctt ctcttccatt ggtgggtgctt acattttctc catgtatctc 300  
 ctcacatgtc ttgttctaaa tgggtgtaac atgattc 337

<210> 15273  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15273

agctttattc aaactattta atccattaat gtcaaagaat tgggtcttga anaagcataa 60  
 caagactttc tctgattgcg ttaaagatac aacctttgct gatgaaaatg gttcagaaac 120  
 attaagaaag ctagcatatg ggcttaaagg aaatgttatt acttggcaag gatacgacat 180  
 tatacagtat ttctttttaca caaaagcaca tgacgacaaa agtacaatgc ataacagcga 240  
 ggtcacccta agggctgaat cttaacactg tgcaagtgtg catgatgaca atccttgctg 300  
 agcttcatcc cttactttgt gttcattgat gacatttgng agcttaacta tgtcataatt 360  
 attgcatgtg tcttgcaatg tatatgtgcg gaccgatgat g 401

<210> 15274  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15274

tcctctctaa gcttcttctc cagacactct ctnggtggtg atgcttcttc ttccatggct 60  
 tattctctag tggatggtgt ctctctttac ctcttctcct ttatcttcca ctgcaactcc 120  
 atgactgaaa atcaccattg aagggcctta ttaaagctca nagatccagc ctccctaana 180  
 gcttctcaag caagttttaca tcatgagata tcatgtagaa ccaactccatg tagtctgctg 240  
 cacactgtcc aagtgcaca catatctgac ccaccaatgc aaggatttca gaaaactgaa 300

ttcatctatc atcgatatac tagagatg

328

<210> 15275  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 15275

tgtcttgcaa gcttctacta agtctttcta aagtaatcaa cttcaacatg ctttgaagct 60  
gtgaagaagt cgtaagagtg atgaagctgc actatatcaa aatgagatat caatttgaac 120  
ttcatcaagg gaattcatca aagtatggac tcattctcag taaacatcag atgactattc 180  
taatgattct tcagaatgcc catgatatat gtccatcaga atgtgaacct caaaatggtc 240  
ttgtctgcta ttacatcatg acagctggaa agtgaacctt cttgctctac aagtgtatta 300  
gttgatgga gccactaca atgattttct tggagctcta aaggcattgt cgaggcatgg 360  
agacaagtga accttctaact ctacacaact atgctgattc tgatgagaat tatgtttacc 420  
tccacct 427

<210> 15276  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15276

tctatacaag tngagggttc tctttacctg aatagtatag tgtacaattt gatgtctntg 60  
tgtgtagcat aagccanaag gaatttgatg gtcceaagtt cttctattgg tgttaaagtt 120  
tcttcatatc aattccttct tattgattat atccttgagc caccagtctt acgttgattc 180  
taactatctc tcctttttct tgttcttgan aaccatttg gttccaatta ctaactaatt 240  
cttaagagat ggtacaagat tccatactnt gttctttgtg agccgactct attattcttc 300  
catagtagca acccaagaat cttcactcaa tgcttcatca atgttctttg gtcgaattat 360  
tgagaagagt gtcacatnc ctttctcttt gttcaaagaa gctcttgnt tgactccaga 420  
tgttatttct ctaatga 437

<210> 15277  
<211> 512



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15277

gttgacacgt ttggaaaccc tttgaanccc cttntactta cggcgaattc agctcgtacc 60  
cgagatcctc taagccacct gccgcatgca gcttggtgtg agaaatntgt gagattaatt 120  
acccccctc ttaattattg agccacttgt gccacaaagg tgagaatccc aaagtgtgtt 180  
caagtctgta aggatttata aagataggga aatctcaaga ggttgcttgn gacttgacat 240  
aacacgtgaa gggccgacca gataaatcga gttgcaattc tctcttccct atcttattaa 300  
tttattgcaa tcaactttgt cttgcacatt taaagaacac tattanantt gattggctgc 360  
ttcttcttct atatgtacaa aaagagtgga ngggtctgct gcaagctgag gtganggtan 420  
gatcaccact ggtgcagaaa gctctgaaag taccttcaag gatagcgcgaggagtggcagc 480  
acctacctgt ctcacctgtg tctnactttg cn 512

<210> 15278  
<211> 279  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15278

tacaccaagg ttgatacata acatctagt tagccaattc catgagagtt cgattgttat 60  
caaccattat accaactacta antttttcag aatcacaagc aataagaata tcgttagaaa 120  
tagaataagc aatgaatnta gtatgacta tactactatc caaaactaca ctatcatgca 180  
caactacact tctactctta ttacttatac ttaacctatg aaatgtctca tctatctcaa 240  
gatcatatgg atgcaagtca catgatttgg acctagtca 279

<210> 15279  
<211> 236  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15279

agcttatccg aggatctcat ggaggtagat tctcaacgag agctcctatg ttgtagacac 60

acataactaat actgctgggg tcaaagccac ctgctccata attatcagag ggagatggat 120  
aacagacacg gagagaatgg anatgggtatc ttgattgatg tattattgct attacaattg 180  
ctcatctata ctaacttccc tactaacaga atctatcttc ttatgctcag ggaata 236

<210> 15280  
<211> 271  
<212> DNA  
<213> Glycine max

<400> 15280

tatcatccat gacactagaa ccacagacac tgaatgttac atacctaacc tccccactat 60  
cttcaatgac ttcaaagtca ggcatgttat ctacacaagg atagtcgtca tgtacagtag 120  
catacgatag acatccatcc cttagactta caccactctc atacatactg ctcttgatcat 180  
cacatgatct cgagcaatac gaagactcgt cgatgtcata atcttgccga ggcacaacat 240  
atatttttagg ctcatctact ctcttactta c 271

<210> 15281  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15281

atgttgatcg agttttaaatt taatggttgt ctttatttaa ntgggtacca aattttatat 60  
taaaataaca ttaatatatt ttttattaat tatgggtggt tcattggaaa aacaaataaa 120  
atatttttaa agtttgcaaa aaaataacat ccgttggcct aaaaccgatg tagaaagcac 180  
attcaacatc gattttttca aaaaccgata ttgtaaatgc actttctaca tcggttttgg 240  
ccaaaatcga tgtcataatc acattcaaca tcggttnttc aaaaaactga tgttgaatat 300  
gactttcaac attgggtttt acagaatcaa tgtagaaaat atttcaaat atacatttca 360  
acatcgattt tctaaaaccg atgttatntt ttacaatata acatttggtt ttt 413

<210> 15282  
<211> 166  
<212> DNA  
<213> Glycine max

<400> 15282

gctgtactga cctgaaccac cataatacgt taaggctctga gatttattca cattttctga 60  
gacattggag gtaaaattct tacatcccca cactcgaata agcatgaatg ttcacggtaa 120  
tgcttacact ttgtgattga gatgccatat actctactaa catttc 166

<210> 15283  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15283

agcttctaag agttagatnt agtataatct acgtttaata ctatataatc ttcttacttg 60  
actgtttgta caagattact tttcttcccg tgatcaacat ggattttcttt taggagatat 120  
atataaagtt gattttatttg ttaaaaaaat cctaaattcg attatgatat tgatttgaaa 180  
tatttttcat taaaaatgat aattaatctt ttttaccat aaaatttatt ttataccttc 240  
tggttaaaact atttgattaa gatagatata ttattaccac ttatataaat cgttttttatc 300  
ttaaaaaatca tatatttttg tgagtaaagt tattttttaa gagtaaataa taatatatgc 360  
caaaaatata taatactatt ctcta 385

<210> 15284  
<211> 124  
<212> DNA  
<213> Glycine max

<400> 15284

acatgaaatt gaggcactgg tttgcatttt ctgtctatgg aaggaactca tacatgatct 60  
tgcttctatt aagcattaaa actctgtctt taactacaat catgcacagt aaattttata 120  
taat 124

<210> 15285  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 15285

agctttgagc taaatcaaac gacaataact ttttactcag atgtctgaat gaatcgcgta 60

atatatagag atcctcgtaa ttgataacgg aggctctgag aaattactaa cgacgttaac 120  
 tttttactcg gatgttcgat tgtgtctcgt aatatatcga gacgctcgat attcagaaga 180  
 gaagctgtga gcaatatcta acgacaatta ctgttcactc ggatgttcga atgaatctcg 240  
 caatatatcg agatgctcat aattgataac ggatgctctg ggataattgt gacaagaata 300  
 acaatttact cggatgtccg aatgtgtccc atattatata gagacgctag taattgaaga 360  
 tagaggctcg tagcttattc aaacgacact aacttttact ctgatctcct at 412

<210> 15286  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15286

tcttgcttga ggagcttcta tggaggctag atctttgagc ttcaatgagg ttctttaatg 60  
 gtgatattac accatggaga tgcagcggaa ggtcaaagag ataaggagag gggatgcacc 120  
 atccactatg gaataagcca ctgaataaag agcttcacca ccaagaattg ccttggataa 180  
 caagcttgaa gatgatgctt taatggacga aaatactgag agaaggggtg acacgaaatt 240  
 gtacgaatac aagagggaaa gacgcggaaac tttcgaaggg tttcttataa gactctcatt 300  
 catcaaagtt accacacgtg tttaccatgc ttctatntat tgactaagta gc 352

<210> 15287  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15287

agctttctact tgcttggaat tttccagtct atctttctta ttttttcgcc tacattcttc 60  
 ttcaagaata gcttaagcaa catcattaaa ggtagacaa gtgacattat tattatttgt 120  
 tatgttgata atgagtttat catataaatc tgtagactc taaagtagaa gctctaccg 180  
 tttgttttct tctatgttaa aatttgatga gggaaattgn gaaaataaag tattcagggt 240  
 ttcatgtggt atgtcaccca agtggactca ctcgttcgaa gagtgcagag tttcctcttc 300  
 aagaatattc tagtctgaag tgacttgatc tcatacaatt tgtggaaagt atccanata 360

tccttcacgt tntccattgt taagtgcaaa tt 392

<210> 15288  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15288

aatgaaagcg ttgacagtgt taacatgcta aacatagagg tggcatcttt gacggctact 60  
actgattcag tgacaacaat gggtgcagca aaggaggaag taaagcaggg tgttgagat 120  
gatctgaact ctacacattc aacaccctgt gaatggtttg tctatcatga tgacaagagt 180  
gctacaaggt gtatcgctat tcaggtaggg aaacttaatt gagtacatac tattgctctt 240  
tgaactataa ttgtacttgt tgggtgcacc ttgcaagttt gttgtaant gcgagaattt 300  
gcaagcttaa atatgataaa atcataatca tgggtggttct caacattatc tggcattgag 360  
agaatttgtg agctaaatat gataaaaactg acct 394

<210> 15289  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 15289

agctctgttc aatagtggga tgaggcgtgt attttctttg taacacactt tgataaacca 60  
agcaattctt tttttttttg ttatcattta gttagctagct ttctgccttt tatcgccagc 120  
atagctagca acattgcaag cttttagaat tcttacaagt taagcacgcc taaaaaatt 180  
aattcacata ctagatactt ctacgagtta actattccat tgcattcatt gcattgcacct 240  
tctaattgtc tgagtgtcgc gatatgttaa ctatttcaaa actttaaatt tctcgttcta 300  
ttattacatt agaaatctta aaatatgtat aaatgaattc tgtaagagtg tacaataag 360  
ctatta 366

<210> 15290  
<211> 322  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15290

tgtcggcctg attgngccca ccattgaaga agtccttgac cttgaaactc atcgagctca 60  
tcttctctccc cacttccacg cctccgatta tcagacgctc tccatcttct ctaatctccg 120  
tctttcttcta tgcaaatcca gagagtttcc aaacaacgcc caaggactct cgaaaggctt 180  
ttttttctct ctctctctca cttgcatcat tataatttaa tatatgctat tgtggcccat 240  
taccctctct cacttcactc ttcaactctca ttattcccta cccaacaaca atgatcccag 300  
aacactactg agactcatct ct 322

<210> 15291

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15291

tgatagaggg gnnnntttga agccatgact tgtatacggc gaatacagct ggtacccggg 60  
atccttagag tgatctgcag agtgcaacc aggcatgcga gctaggggtga tgtngcacgt 120  
actgatgggt accatgaggt gcacgcggcg gtttgacca tgcgtggcgt tgatagacag 180  
cacgggtagc tgcgttcttg ctttatgcc aacgaagtac cgatactttt tgcattcgaa 240  
ctcgtgaagg agacgtaata gaactgtact atgttcaatc ctaacttgat tctttatcca 300  
gcgaacacta agatgcgcaa tctggacgac atgtgacct ctagctgctc atagtacaac 360  
actcgccacg tgttaacata ctagtgatca tctctctctc gacatcggag agccaaatgt 420  
gctgcaagaa tttcaacgtg tcgtatactt aagggtttcac ctctttgtga actatcagag 480  
atgatgcac gaaa 494

<210> 15292

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15292

gaatataagg cttntaatt gtcatcattc caacattccc tcactaatga caatcatatg 60  
agaaaaagaa taagaacgaa natttctagg caatganagg tattcgcaag aaataganat 120

atantttgct ttcagattgt gatacgtaac tcatccagat aagtaacttt tgtttgatta 180  
 agtaactttt aagtgcagta atttgttttt aaaacgtttt gccttccaat tcttggtatt 240  
 gcgaaanntt attttcaaaa tgtttgtaca gtaaattaca taactactc 289

<210> 15293  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 15293

agcttatata atacaacaat gaatggtgaa taaggatatat tccaatggaa tttctaatta 60  
 taaattataa ctggatcaac ctttggtatt caagttttta tgattcttat gttttcattt 120  
 ttttattttc acagttactt tcttcattaa cttctgcctt tgaatttggg tcagttgctg 180  
 atttagcttt aattgtattg ttgaaaatgg gttcctagct ttcgattgag gagctagttt 240  
 aatgtcaagg taagttataa tttcatatct tcatgccaat gattttcttt tccctttctt 300  
 acagtgcata ctggtatctc tattttactc tttttaatta ggattcagtc ctattctttt 360  
 attggatttc gatattcata tctacgtact tctaacaa 398

<210> 15294  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 15294

tctagactat ctgtggtgca agtaaagcga aagtaaatat gtgatagata gtgattactt 60  
 tatgtaggat gcacattgca atataccttc taaatggatg gtaacttaca gaaactacca 120  
 aaatccattg attacatttt attggagtgt gtgattatct ttaaaaaaaaa attagagggg 180  
 ctgcctttat cagtaccac aatacgtata gactacaatt attgtcattc tccattttgc 240  
 aaataagatg gccgtcgtat cttgacatag agatattgat ataaatatac aacatatcta 300  
 tatatatatt tgatatcaca tatatatata taaactcata tgcgatgaga ttatacatat 360  
 ttatatatat atatataata cagtcttata tatataaata t 401

<210> 15295  
 <211> 401  
 <212> DNA

<213> Glycine max

<400> 15295

cttgcaagct tgtgttcctt gttaattatt ggtattagtt gttgtttatg tgaatattag 60  
ttgttaaatt tcaattgaat tatgttatat gatacacaca tgttaaagta gttgcattac 120  
tattagactc tcttatacat taattggttt atatgaactg ggagaatgat tatataatta 180  
gaaaaacaat tatagataaa attgtctaag tgagatttaa atctaacatg aaagatgaaa 240  
ttagaaaagct tgaccattgt gtcaattaat gtcattggta tattgaaata tgacttataa 300  
taaataaata tatgctaata atcgaaatat gacttataca ctgtgtgttt aaagtgttgt 360  
tgtttatttt tgcacttctg agatattatt atgatcttta t 401

<210> 15296

<211> 292

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15296

tatacagana tacatatntt ccagcaacat cttgatggca ctacaacaat acaacataca 60  
tcacatggaa atattagatt acagccagac acaatgcata gatgctactg tgtngngtgc 120  
tntgctacat tgccacatga atttctggta caggaaactgg ttggagggga tcaaattcaa 180  
taaagaatgt ccgaatctcc atccgagcaa gttcaaccac caacttcgta agatcaacag 240  
gtctctctct caccaccttc agttcttcag tggagccttc tactttcaat ct 292

<210> 15297

<211> 368

<212> DNA

<213> Glycine max

<400> 15297

agcttgata tgatgcttca atggaggaaa agaaagaggg agagaaagag agaggtggga 60  
gcacgaaatt gaatgaagac gaaagggaga gaacgtgaac tctgagttgt gtttcacaag 120  
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactatgtag 180  
cttccttgag aagctctctt tgagaaactt ccttgagaag ctcttttgag aaaacttctt 240  
tgagaagtta gagcttagct acatgcaccc ctctctatca tagctcacct acttgagaac 300



tttcttaaga aattttctaaa gaactatagc taactacat accttttctat agcttagcta 360  
 ccccatg 368

<210> 15298  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<400> 15298

tcacgcgtat cgaagccggc tgatatataa tctcatgtgc cacacctcct aagagtcgcg 60  
 agagatgatc cttgaagtgc aacctagtgt acgcacgcac aactactcat cggagatggg 120  
 agtcacgagg cttcatatat agtcctgtga tagcggtact gtgacgaata gattatgcct 180  
 tcgtgaaatg tttgcggggg gcatcatatc cggaatcaga ttacacgagg acggatacgg 240  
 gctagcgatg gcataccttc aggacgttct acattaggac accgctatcg ctgcagata 300  
 tgtgacgcga gcgaatacgt ccggagcgag acattcctag acaatatcgt gagcgggtat 360  
 ttagattggc gcatggcctt aacctacagt tagcatctgt ggaatgtttg tggcgtagta 420  
 aagcggtgga ctaggcaagg gcatcaccat gaacgtggat ggggacgaat acgacctacg 480  
 tcaatcgctc gggtagcaag caatatctcc ctttataagg ccaggaactg ctcttgacaa 540  
 actgtaaaga agg 553

<210> 15299  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 15299

agcttgataa gtatttaaga tctgctggaa ttcgtgattc ctgcgaattg tattgtttct 60  
 taaattggga aaatccttgt tggaccgttt ctgggaatat ctctgggatt ggtccaaaga 120  
 agtcccacca ttgcataaac caattgggaa aatcgtaa atgtgttggtc ttgaaatata 180  
 tcagccatga atgcttgaag cgggtatttt ggtgccaaaa caccttattc caagcatcaa 240  
 cgtaatccca atatgtatta cctaccggat caaatggaac tgaaaatctc tttcctttgt 300  
 tcaagtctga accaaagtgt cttggttgaa gaacttttag tatttggtat gctgagtgtg 360  
 tgtctaagt ctggtctttt gatctctgaa atgttgat 398

<210> 15300  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15300

ttagccttag gttgttctat gntgcttatg ttgatgctcc tectatctct aatagtttga 60  
 gacctcagac aaagatgatt cttgatggct catcaagagg tactattatg tctaagagcc 120  
 ctaaggaaga aattgtaatc attgactcta tagaagccac tgattatcag agtcaccatg 180  
 atagggctct ggttcaaagg aaagttataa tggagccaga tactcacaat gtaattctag 240  
 cttagaatat actctcgact caacatatag aagccttaac aaaacaaata ggccaacttc 300  
 cttaataatc tgagtagggg ggatcacaga agacatacca agctcattaa gtacaaaaag 360  
 ttctaagatg acccattggt tagtacctgg tgattgc 397

<210> 15301  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 15301

ttgctgctgc atgcaagctt atcatatggc gtcgatgaat aggtttcttt gttgctctca 60  
 ggatccttga tagataccgt cttatttctt ttatgcaacta ttgtgccctt atgacctaat 120  
 ggactctctt tgacagtcca atagaccaca gcatatatat tttttctttg attattacta 180  
 ttattattta attttcacat gttctcttct aattctttct tttattttct tctcattaag 240  
 ctctttcatg acttcttaca cctttttttc aagttatctc tgctttttga taatactttt 300  
 tgttcttttt cactttatat atgtctctct ttttagattt ttctctgctt tcgtttttaca 360

<210> 15302  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15302

tgtagtataa agtgtatatt gccncacatt tgtttcaagc ctgtgttatc gtacggccgg 60

ccctgtatga tatgtgacng agataaaaagc gattgtgtgc accccacatc caaatgcccc 120  
 aaatgtccgt cccagaacaa cagtttctca ataggaaatt acaataatta taacgacggc 180  
 tgatatgaaa tgcgtttttg aacgatttct g 211

<210> 15303  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15303

agcttatgcy catatttcct tacgaacgtt cacttgcaca agacattcta ttaactaaga 60  
 aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac atgtacttcc 120  
 aaggtgtatt tgttacctac atcacacaca ttctctttgc taaattcaca tacatgcata 180  
 ctctaagcac tntggctatc gaaaattgca tacgtgcata tcctgntatt tctaatacct 240  
 atacatacac aaactttatg ataaatctng actatctaca caataagggtg ctacatttca 300  
 tgccctttttt caaagttttg ctacctaaag ccgcatg 337

<210> 15304  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 15304

tgtaaagcat tgatttgata ctggcttctt catcatgtgg ctcatgatag tttaacaatta 60  
 atgatccttt gctaccctgc aatgagacac acatagatac acagacacgc acacatagag 120  
 accaacacac agacacgaac tcagaacaca cacacacaca cacatataga tacacacact 180  
 acacacacac agagtccacac acacttattg acacagacat agactcatat aactgagcc 240  
 acagacactc acagaaaccc aacccataga cacacactct gtgtcttaac acacacatac 300  
 actaatccac tctcacagat gggcagacct caccataa agagacaaat cgttcacata 360  
 cacacacaac acta 374

<210> 15305  
 <211> 425  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15305

agcttggaat gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 60  
cacgaaattg aaggaataaa agaggagag aagtggaact ttgaagtatg tctcacaaga 120  
ctctcattca tcaaagttac aataagtgtt acacatgctt ctatttatag actangtagc 180  
ttccttgaga agctttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttagcta tacacacca tctaaaaact aagctcacct ccttgagaag 300  
cttccttgag aagctagacc ttagctacac acacccatct aaaaactaag ctcaccttct 360  
tgacaaaata catgaaaata caaaaaaag tccctactac aaagactact canaatgcc 420  
tgaaa 425

<210> 15306

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15306

agactatagt ctaaaactct gaaggataac aatgacacta accaatttgc cacaatttta 60  
attaaaaagc cataatggtg agtaagagtt tccaattact gcagtgaatt tagagacaag 120  
ttttggttca ttgttgaatg catanggcac gactatagtc tataactcta agaaaaccat 180  
aagaactgaa caacaaactg aacaagaaaa ccataagaac tgaacaaact tataaaatat 240  
aacatgattt ataaataatc ttatacctta actatgtgat aaaagttcaa tccttcacct 300  
gtangcattg ggaaacattn tntattatta attattanat tcaattaaac cacatctcaa 360  
ggaacgggta ta 372

<210> 15307

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15307

caagcttgac tctaaagagc atcatctatc atccaaaatt tgtacaagaa ttattgtgct 60

tgtcgttggg ttacccttca acatgctgga acaactcggt tctttttcaa caaaataaaa 120  
 tgactagatt gtattaatac aaggtaaaca accttatttc acacatgctt ctcaagcata 180  
 tttgactgta gttgtgcac atgttattag aatgagcatg aaaaagcatg ttgtagatga 240  
 ccagtagaaa gtctcagctt gactattaac acgttccatg acatcagtgg caaggattat 300  
 tctaaaaaaa gaaagaattt gaaatntcat tntttattct ttactttaat tntaatgtaa 360  
 tatctctatt agttaatcta tttaatagaa tagaagttat aaaatctacg taattcacgg 420  
 ttaa 424

<210> 15308  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15308

gtattaatta ttattgttaa ccttcagta tatatatattc gatatcatca ttcattgttg 60  
 tgtctttcct ctgcgggcat ggcgattttg tcctaatttc ttttagaatg catttagatt 120  
 cataatttta cttgacgaaa gcaatttatt agataattta catctcttta atctaanatc 180  
 gattgtttga atgttctttt ataaagaatc taaattgtta taattctaca caattaacaa 240  
 tatagaattt taatttcctt ctaacaagtg agaaattgac attctcttct tgatcaaaga 300  
 gccttaaaaa atatgtgcgt aatttcttta atacc 335

<210> 15309  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15309

agctntatcg cccatgtaag ttaagatgta ctaactgctg ccatcgggcg actagagcac 60  
 cctggctcgtg tccgtgctgc tgaaggctcag tggtagaggaa gtctgagatg ttgatgctcg 120  
 tgttctctgta accactctag aagttcagtt agtggggtag acacttaaca ccttccttgg 180  
 ctgacacatc ttgtaaagcc ttttttagaa caagtatttc actttgtttt ttttaatact 240  
 tattaataaa ggatntgtta caaattatgt tttcactgtc attcgcttaa tgtttattaa 300

ctgtgtagga taaacagggg tggcgaaac ctatagatta tggatcctga cattgatccc 360  
 ctgtccctga tgacattgac catccacat cttttcctta agttg 405

<210> 15310  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15310

tgatatatgc caaggtgccg gtttggccag cggttcatgg ataaatgaat gtctgacatt 60  
 atttccatga cacacatgca acaatgatga attggaaata ttatgcaaaa ctagtcatgc 120  
 atgcaaccat gtggacactc aagcatcaag tttttatggg catgtgacac taggggtcaa 180  
 gatncatttt cctctataa gtcaacctag tgtttcccaa acatgatttt tttttatcaa 240  
 ttcatgcatt catccgagtc caatttgggc gtcggggaaa ttatacaaca ttcacccttc 300  
 agtgcataca cttttttttt tcaaaaactgg tgtatgatca gtgaat 346

<210> 15311  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15311

agcttcacat ggagctacat cagaatggtc ttaaagtgtg ggaattgtgg cagtgctaag 60  
 gtaagtccca cttgagagga gaaggtagaa agattgcttg agaagaaaag ctctcttaat 120  
 atctcctttt cgttggacta gctcatctag gtccctatat ggaaggagtt caaccttgct 180  
 cccacttcc atattaagcc cactaaggaa cctagctatg cttgtttttt ccacctccct 240  
 aagtccagct cttaaaagga gtagttccat ttgttgtcta tattctttga cactcact 300  
 tctttgtcta agcctttgga gcttgccat aagctccctt tcatagtang agggaaatgtg 360  
 cctcttccta agggcattct taagatcatt tccatacttt actggangat ccccatg 417

<210> 15312  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15312

acgattgac gngaccacagt gctgagagaa acgaggatat gggctacgtg ggagtacatg 60  
 agctcagttg gaggtgggca acaggggatg gtgggtttat gcgcgcattg tggatgtgga 120  
 aaacttgttg tgcaccatcg cccgaccgcc acctagtacc acatgtgatg ggtaccccat 180  
 aatcctacaa gcttgagatg aggaagtata gaagggtgaa actttctgct tttattcgtt 240  
 gaccacagag tgggtacttg agatatgtcg cggagggtcaa gagaccttgg ggacgtcatg 300  
 tgggggtgcta ttggccaaaa ccaagctgga ccaatccga cccaaccctg gcatattcag 360  
 tcagtgagac ctgtgatgac ctaaccgtcg agctcttgca gtcacagata a 411

<210> 15313  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15313

agctttgact tgagtcatca agagattata aatatgtgac catggcatga gtttcaatga 60  
 atgatctctc atctatcatc tatctttcaa tctatctttc aatatcttct ttcattctctt 120  
 tcaacagatc tttctaaatt atttctcttc atttttctaa aagttttttt caacactttc 180  
 tcttccaaga aaagtttttt gttcanaaac ttgtgctatt catctttttc attcacttat 240  
 ccctttgcca aaagaaccaa ggactaatcg cctgaattct tttgtgtctc tcttctccct 300  
 tacaaaagat tcaaaggact aaccgcctaa gaattctttg gattcttccc tttcccttaa 360  
 gaaaaagatt acaaatgact a 381

<210> 15314  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15314

ctataatact cagctttatc aagagtttta ctctctggta atcgattacc agtggcaagt 60  
 tntgttttca aaaagctntc aactgaattt acaatgttcc aatcaatttc aaaatgggtg 120

aatcaattac aatatattgg taatcgatta ccagtgtggt tgaacgttga aattcaaatt 180  
 caaatgtgaa gagtcacatc ctttcacana aatgctntgt gtaatcgatt acaatgattt 240  
 ggtaatcaat taccagtgat aaattttgaa taaaaatcaa aagatgtaac tcttccaatg 300  
 gttctcaagt ttttctaaag gttataactc ttctaattggt tttcttgacc agatatgaag 360  
 agtctataa agcaagacct tgacttgcat ttaagaatca ttctaacaat tataacaatcc 420  
 tttatacctt tgaactcttt gacatcttct tttctcttct ttgaaaagtt tctaaagtta 480  
 t 481

<210> 15315  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 15315

agctttgctt tatttgtacg gcctcccgta cttgaagcct agttgcaggc agtggttgctg 60  
 cgcacaagac cccgagtctg aaaacagtgc tcatttcacg tgagtaaagtg gcttacatga 120  
 catattcgtc tagcaattcc tcaacatata cttcaatcaa aacgtgacgc cactcccatt 180  
 cagaaagaga tgagtgttgg tctccataat atgcttggtt accagttgtc agttccaata 240  
 ggactacccc aaagctaaac acatcaatct tttcactaac tcgtgatgct tgaacatatt 300  
 ctgcaattca aatatgaaga atcacattga gaata 335

<210> 15316  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15316

tctagctaca atctacaacc tgctagcaat ttgagaattg gatctatcag gaggtttcag 60  
 acaatccatt tctctctcat cgatatccct gaagcactga tctaccatnt cttecgtaac 120  
 cagctctagc tgtgaagggt cccactagtt aattaataaa ataaaacaca caacatgaag 180  
 ggtaaaataa tcatttatat aacataataa tctaaattnt gtagaaagca gatacgatan 240  
 gagaactatc ttttaatt 258



<210> 15317  
 <211> 98  
 <212> DNA  
 <213> Glycine max

<400> 15317

agcagctggt ttcaatatct atcgtctcga catactgagg gacacaatcc gacaccctac 60  
 tcttcagcaa ttggcgactg aattggctca tatcttct 98

<210> 15318  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15318

tttgagcnc tgaaaactga cgncttgn tgaatctang ctgtgacana nngaccncgg 60  
 aaanatcggg acggtaagat tgagtagccg aacgaattac ttactcatta gagaataact 120  
 gtcaacgcng atggaccatt ggacaccatc actaatctag acccttgtaa gtgaagacat 180  
 acactctgga gcgactcaaa ccactatggc ttactactcg gacggactat agagtgcgag 240  
 aataatacca gacgtgggaa cttttgagca cacatattga gaaattatac aagaataact 300  
 ttacatggt ggcgcatcga gtctgcta atgggtggcg caaaataaat actggactca 360  
 gtacaaatta aagacttatt attctttgta agcgaagaaa ttgtagaaga cacatgtcgt 420  
 ataaaaatga ctctattatt aaacgctctt gtttgaatga gatgcatggt tgtttaatcg 480  
 aatta 485

<210> 15319  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15319

agctctagat taacaacatg acatcatcac atcataaaac acaaaccctc gattaacaat 60  
 aaatatgggc cattaccaat ctaaacttaa attgaatgaa aatcaaaacc taaacaagt 120  
 catggcaata gagagagtta ttaattaatt gaatgaggga aaacctaacc gaggataggt 180  
 cagttccgaa ttgaacaatc agtgaagct aagattaaaa tggtactggc aatttgcaag 240

ttgcaagacg acgacgctnt ggaggaataa taatcataaa acaaagcgag caacagttaa 300  
gtgaataaac 310

<210> 15320  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15320

ctcacgcttc atgattcacg tatattngat acaagatntc ttaccccacc taaccggtac 60  
ttttcatcac acttgaccca cttggagtag tgaacttate ctttttcatg accgaattta 120  
anaaataatg aaccacatct taatgatcat cttttccctc tctcaatctg tgggaagact 180  
ttctagaaga tngacataat ttaaggcaag aggagctccg gcatttagcc aaatccaact 240  
cgtgagtgtc catgaagctt ccgcgttgca ttttcttttt ttctttataa gaaacaatan 300  
aatatatata tca 313

<210> 15321  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15321

agcttgtgat atttgttaat gctttcttac taattatggt tatttgactt tgggtattaat 60  
ttattntata ataaactcac cccttgtaat tntgtaccgt gtggttggtta cctgtgatga 120  
tcgcgaacct ttgttcgtgg gaggagaatg acaacagtag agtatgagaa gtgaggttct 180  
tttgtggagc tgctaagccg acgtgatgac gttgggatta tcttgggaga gagttgtggt 240  
ttttaatcaa ctctccata gctgggtcca cgattctttt tgttgactta aagaagtaaa 300  
taacaaatth aattatatgt atgaacaaat ttacttttca ttatgtgaat gatatgtaat 360  
gaggtattat acatatatat atatctatgt atatatatat atatata 407

<210> 15322  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 15322

ntcacaagtt atctcataac tcanagcctt gtggcacaac acaatagctc ttgcttcatg 60  
 tgtttacctt cttgctgtgt ctattccatt gtggacaagt gcatcaagtg aagtatgtgg 120  
 atgcctcccg agttattcgc cttctggtag ccaaaggctc taatgaagta tgtngatacc 180  
 actgtcgtcc aggaagacct tgttagaatt aatgtctcat gtgagaggca tgtgacttta 240  
 tgtaggacta ataaataaat cattaataat taacgactaa attgttattg tgtaaatagg 300  
 agaaacttct aaacgtaact gttacttgat ggaagtagtg ggtgtanaag gggtaatac 360  
 ccactaactt gaaacaaagt cccttctgac acaagtgtct ctctatc 407

<210> 15323  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 15323

agcttttctc ttgtggagac ggcgacaaat atcggttggg acatggaaac aaggaaacgt 60  
 accttcaacc aacttgtgtc tctgcactta tcgagtataa ttccaccag atagcatgtg 120  
 gacacaccat gactgttgct ctactacat ctggtcacat tgttactatg ggaagcaatg 180  
 aatatggtca actatgaaac catctggctg atggaaaagt acctatccta gtacaagaca 240  
 agttgggtggg tgaatttgtt gaggtaatat catgtggatc tcatcatgtt gcttgcttgt 300  
 catcaagaag tgaattgtat acttggggga caggtgccaa tggaagattg ggacatggag 360  
 acatagagga ta 372

<210> 15324  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15324

tctattctaa ataacccta ttctaagtggt tatatatattg ttacatcaca tctcatgatg 60  
 attntgaatg tatctaaata tgcaatagct caaacaaact aagtgcacaa gtgtcaaatt 120  
 aatgcttata catttctctt anaaaatggg aaaaataaaa acattaatat ttaaagttgg 180

acgataaaatt aaacttcagc agatgggtta ccaaagcatt atttacagta actttaaggt 240  
 cttcctgatt gtggagactt acatcatgga aggctagcaa attgagccag acattcctac 300  
 cactcataag agatactcgc cgttctgatg tgttacctcc aaaaatgaca aacacttttt 360  
 cgagatcctt cacggcgaga aaaagaactt gtacgctgta gagatattga cctgcttgga 420  
 agctgacctg atataccact aactgatgca agatttgga at 462

<210> 15325  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15325

agctttacag cagaatttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
 ttaacctatg gaattaaaac aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120  
 aagtcacccc caacagccaa caagtcagcc accatttggt ctcccaaaag gctgatgcct 180  
 aggttgccaa ttgggccctt attacaactt gaactaaagc ccttntagtt gattaaccca 240  
 aaacatattt ttggccagcc aactntacaa ggattgggcc attatttaga caaactaaac 300  
 actctaaaat tgaaataaag tgggtgcatt t 331

<210> 15326  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15326

ntacagcaga nttagtaat gaccactat cctagaatta atataactta atgccattaa 60  
 cctagggaat taanacaaac taaatggctg agtgaactg anattgttg caaccaaag 120  
 tcacctcaa cagccaacaa gtcagccacc atttggcttc ccaaaaggct gatgcctang 180  
 ttgccaattg ggcccttatt acaacttgaa ctanatgcc tttagttgat taacccaaaa 240  
 cataattttg gtcagccaac ttacaagga ttgggccatt atttagacta actaaacact 300  
 ctataattga aataaag 317

<210> 15327  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15327

agcttcccaa gttnttaagt tcttcctcaa aactgtccta agcaaagttc ccaaagtcct 60  
 attaacaact tccgtttgcc catcgattta tgggtgacaa gtggttgaaa ataacaattt 120  
 agtgcccaac ttgctccaca aagtcctcca aaaatggctt aagaacttag agtccctatc 180  
 actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa acaaatcagc 240  
 cacatgggaa gcatcatcaa cttttttaca tggaataaaa tgagccattn tagaaaacct 300  
 atcaacaacc acaaaaatgg aatctctacc attgctttgt tttggcagcc ccaaaacaa 359

<210> 15328  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15328

tgccaccag ctcgcccagg cgagcaagga tgcttcctcc agaagcaaca gccttctgga 60  
 ggaatcttct ggagggccca agtgggcctg cgtgctatnt gcacccccac ttttactaag 120  
 tacaccgct gccttgtttt ggagtttctt tattcgtaga gttatggaca ctcacgaatt 180  
 tcttagcgat acttgttatc tttccgtaat gttacagaac cttgtggnat acataaacat 240  
 accctttatg acttacggaa tgttacggaa actcactaa 279

<210> 15329  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 15329

agcttcatgt cttagtcatg agtgctagac ttgtctgaca ttaatgaagg atgattacca 60  
 taacaggaag ggtcgacgta attgaacatc ttttgaagtt ttcaacaact atctttcgta 120  
 taaacattac attaactaca ctgcataat atatttgact gtttttatag ttgttaggtc 180  
 cgcaaatttg attaagttta agacatgtgt acaactaatt atggcttttg tgggtccttt 240

gttatgacta tgttttgttc atgggttggg tactttcttc ctttacattg aatttagttt 300  
 gttcgtgat agaaaaacac attgtctata taactaatta tgattgccaa attaacttaa 360  
 ttatccatca tgtgcatgag aatatggaca aaacataaat attgcgtatt gttatatgat 420  
 aa 422

<210> 15330  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15330

tattgctaaa tgctaataca tcagcaattc tcacagaaat catctgttcc tgacaatggt 60  
 agaaaccatc agaccatggc catatataac tgtgcaagca tgatagaaaa caaattataa 120  
 aactattaga aatgaatgag gaagtttgac aaaataataa gacaaatacc ttttcattgt 180  
 atatacgaag cctttctttg actactgctn tagtatcatc tgaccgagta atgagctttg 240  
 acatacagtg tgcaggagga agaagtggag ccatgacat tccaggacgc ccattctcac 300  
 tcttgatgct aatggaggca atattaaaaa ttcttcaca ttgattacaa attcttctac 360  
 caagggcatt tgcaagcagt gcttcttctt ggagcttc 398

<210> 15331  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 15331

agctcagatt tgcattgatg ttattaaggt tgcacattgc tttgaaatca ggaaatacca 60  
 tatgcattat taaagcgaaa tactactcat aattatagga aaaatagctg catgattgaa 120  
 cttacgagac ttactatacg tggtttggtg gtataggctc tgcttataaa attactgtta 180  
 ttttgataat ctacagtaac ttttaatat gagtcattgg ctttcgttac cgtagggg 238

<210> 15332  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15332

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ccgaacaccg tgccgcgacc cttaccggga ccccccgcc ccccatgacc ttgatcagcc 60
tgaanccage tgtgcatgcc cttaccgact gacacgggat gagnacnng tctccccacc 120
gggattggga gaacgcaaca cacattttta ttgacggaaa ccgactggga tcatagaagc 180
atgctagctt cgtgacttac atcaaggacg ccacttatga gtttgcgaca gcaatgctct 240
taaccaataa tacatagtat gctaggaatg cgctatcagg agggataata acgcgtccgt 300
tatttggctc cattagacag aaggcgggtg acgtattcac gtaagaggaa agcctcattg 360
tggaacaaca taggtggcag aatgaaacct ggaattcaag ctttaggcga ctagcacaaa 420
tacacacagc actcgcggat gaacatgctc ggccatacca cgacggaggg aaataacccc 480
aacaacgagt cggggcaacc cn 502
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<210> 15333  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 15333

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agtcgttggg ggacatttta agagcatgtg tcttatagca gaagggaagc tgggagggtt 120
ttcttcatt gaaagagttc acttataaca acagttttca ttctaccatt ggcattggctc 180
cctatgaagc tttgtatggt agaagggtga taacacccct atgttggttag agcccggaga 240
atgcctcacc ttacgaccag aagtgggtaca acataccact gagaaagtta agttaattca 300
ggacaggatg agaactgctc agagtacgca gaccagttat catgataaga ggatgaaaga 360
tctggaattc gacgttgggtg atcatgtatt cttgagagtc actccatgga atg 413
```

<210> 15334  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15334

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tgagatgagg aagtgtagaa gggtgaaact tcctgctntt attcgttgac cacagagtgg 60
```

tacctggaga tatgtcgcg gggtaagag aaccttggga cgtcaggtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccgggga tagttagtca gtgagaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagacgaca 240  
 aagcaaggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tatgggatat 300  
 ggctcttgt aatcgattac 320

<210> 15335  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 15335

agcttgacat aaacccaat attctttgtt ctacctaac actactggct ttgaacaaat 60  
 ctacaacatt tgctggaggt tttgctcact gactaaagta tgatcatcta atagacgaat 120  
 gtatcattta acacttttag tcttttcttt caatgtatac aaagtgtttt gagagctttg 180  
 tatctttata agaatttaca gaatgcttta caagaaaaaa tgaaagaaaa attcacataa 240  
 atagtctgtt ttctgtgttt cttcaaata atattcttca tcttcaagta tccattgtct 300  
 cacaacagtt gaattcttca ctcatctt tatctgaagt ctggagtcta ttggagcatc 360  
 taatgattgc attaaatgca cttatctctt aatgaaatgt ccatgttgat aggatgggtg 420  
 gt 422

<210> 15336  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15336

gctattacgt gacactatga tactcagctt ataggagtg atgcctatgc tagtgtgata 60  
 actattatta taagctaaat ttataaggga taaaaactta tcccaactta caccttcac 120  
 aagaacacat actctaagca tgtcttcaag gttctagatg atcctctntg attgactatc 180  
 catttgagga tgataagcag tgctaaaact tagcttatac ccaaagctc gctagaatgc 240  
 tttccaaaat ctaagatacc tatctaacac tatagaggta ggatgcat gaagcttaag 300  
 tatctcctta ttgtaaagtg ctgctaattt gtccaatttg taggtctcct taattggtaa 360



gaagtgagca gacttgggta gctgtccac aaccacccat atgacctcta gacccaaacg 420  
aagttttgga aaactgttac aaaatccct 449

<210> 15337  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 15337

agcttcactt accatcacac ataaaaataa gatttggata aagtagcatc aattattcaa 60  
tcaatatatt atataaaaca caaatattaa ttgtacttgt tagtacacgt gtgttacgct 120  
ctggtaaaag gatgatccac ttttttttaa gtttaaaatt atgataaaaa ggaaggagaa 180  
tatttttgat tcatgccaat tatattgata taatcattta tgtaaataaa aatagtaaca 240  
aaaattaaat gtgcatttat gataattaaa gaaaccaagc agaaaatttt aaattacatt 300  
taattattta atttattatt attatattat ataaatgctt atttgaaact ttgtaaatgc 360  
ttttctaaaa tttaaattct taaaa 385

<210> 15338  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15338

gattcatggg ttcgagctat gcatgatgaa attattgctt tagaaaggaa tcatacatgg 60  
gtgcttactg anttacctca gaataaaaat gtgatttgtt gcaaattgggt gtacaagatc 120  
aaacataatg tgaatggctc tattgaacgg tataaagctc gcttgggttac taanggctat 180  
acacanattg aaggetanga ctatttagat actgtttctc tagtagccaa aattactaaa 240  
gttcggcctt tgttggcact cgctgctttg ataagtgggt atcagacagc ttatgtaata 300  
atgcaaactc atttgatctt atg 323

<210> 15339  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 15339

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agcttgggta tgcagcanng tgtgttttgt tgtgcatgtc cttttgtttt tgacatcata    60
cacctgggac atggcccata cgagtggaca tggccaacc tatgttgtca gtagcagtct    120
tcgcagttnt gtcaacaata aaaagtataa tgcaataaaa aattgtaaaa atactatttg    180
aaacataaca tggaatataa caagagttta atacctatgc attgatagta taaaatagat    240
tntccactat catccaatca taaattactg tttgaattac tttaagataa ttatttttaa    300
tgttgacaca ttaccatgt tagtgcatat atagcgttct aggttgccaa gaatgggtgga    360
gttgactgga atgaactcat gagttctg                                     388
```

<210> 15340  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15340

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tcatgatgaa tcaagatnga ttcatttagt tctgatgata actaagatga tgacaaanag    60
ctcanaagtc aagaacattt catgataaca aagatgatga tctcaagaca tcaaagaatg    120
agttcaagat tgaatcaagt acacttcaag gttcaagagg aaatttgatt tcaagaatca    180
agattctagg tacaagcttc caagaatcaa gatcaagatt caagattcaa gattcatgaa    240
tcaagagaac acttaatcaa gataagtatg agaaagtctt ttcaaatact aagtagcaca    300
tggatttttc tcanaatctg tttccaaaga gttttactct ctggtatcga ttccagatta    360
ttgtatcatt acttttagoga aatggtttta aaaactttta ctgattacaa tgtccattga    420
tcaaagtgtg atcaatac                                     438
```

<210> 15341  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 15341

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agcttcatat ttgagggtcta aggcaacatt cggggtcaaa taccctgtgc ataacataaa    60
gggctgaggg gtatttcggg ttctatagaa aagaacata tttttgaaat tccgatcacg    120
```

ccaatgtgac cgggtgttcgg tgaatgccgt aaaaacaatc tcaaggttat aaaaagataa 180  
 ctcttaaaat gtctcattct ctatggattt tcagaggaag tgtaaaaaca cccattaca 240  
 gtaccaaca cataaaagac actaagagga gctc 274

<210> 15342  
 <211> 209  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15342

tagtagtgaa tcacttattg tgaggacaag tagctatgac attaaattta attgccattc 60  
 ttgttgcata tntctaacca tgcttttgat tttgctgagc taaaaagttg aatgtgggca 120  
 ccaccatact tagntgattg aagcacatga acacaataat tgttgaatga acgggaatgc 180  
 atgaagagtg tgtatgtaac tttgctttg 209

<210> 15343  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15343

agctttgatg caacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggagtagaa gagggaatga 120  
 tgggtgttcct agacaaaact gaattgatga tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccagaggcct acttgagagt ggagatgaat atagagcatg ttntctcatg 240  
 caacaactat gatgaggaac ataaggtgaa actngccgtc acggagtttt ccgactatgt 300  
 tcttgtgtgg tggaacaagc tacaaaatga gagagcaaga tatgaagagc caatggttga 360  
 tacatggatg gagat 375

<210> 15344  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 15344

tggagaggat gcttcaatgg aggatatgaa agagggagag taagagagag gggggagcac 60  
 gaaattgaag gaagattaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120  
 cattcattaa agttacaaca agtgttacac atgcttctat tgatagacta agtagcttcc 180  
 ttgagaagct ttcttgagaa aacttccttg agaatcttct ttgagaaaac ttccttgaga 240  
 agttagagct tagctacaca caccctctc ataactaaac tcacctgctt gagaagtttc 300  
 cttaagaaga toctaaagaa gctagagctt agctacacat acctctctta tagctaagct 360  
 cacctccttg agatgagaag ctagagctta gctacacacc ttctataata gcttagctca 420  
 ccccatg 428

<210> 15345  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15345

agcttctaata gctaaaatat acatttaate ttttatgttn tctatgatata tctatttgat 60  
 atgttattttt tttttaaaag ctaagggtca atttagggta attgggagtt tctgattttt 120  
 tattttcaaaa tgcaattttg ataacaaaat gcttttagcc acaattgagc taaaataatt 180  
 tgactcatta tttttataac ttttacattc attctcaaaa ccaagataaa tattgcgaat 240  
 ctagttttaa atttaaaaga atgcacactc tctatatttg acatgggtcct ttccattgct 300  
 atcattgcac aaccaccatc tccatcgga acgacactac tcaccaccac aaccacaaca 360  
 tcatcatgac tatcttcaact accaccaccg ttga 394

<210> 15346  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15346

tatagaagca aaaatggacc cgaactacca aggtctacat ataataagcc accanaccag 60  
 tgaaatatat aactgaatat aaaaaagtgc aacantttgg agaaggtaaa atgggtcaag 120  
 aggcatactg ctagcattat gagtagcatn tgcaacttta tataattctt cgtgatcatc 180

atcangttca cgtggatagt cgcatttcat atactgtgag agaacataat caaaagccaa 240  
 tatacataac gaatatttac agactacatg ttaacctaga aataaattat accacaataa 300  
 aaataataaa ttaatgattg acaagtatat gangataatg aaatatacta 350

<210> 15347  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15347

agcttagtgg attatggggc acccgtcata tgtggtagta ctatgtggca atcgggcgat 60  
 ggcgcaaadc aactctccca ctttcacaag tcaaacataa acacaccatc ccagttgcc 120  
 cacctcttaa ctgagttcac aactccccc gtagccctta tccacgttcc tctcagcacc 180  
 gggcccccat caacccctcc aagctttcac aatatccaag caattcaatc ccaactatca 240  
 tgaaactacc ctgaaccgag aaaacagagt agaagcagaa aactctgccc aaaacacata 300  
 tcaataccac aactttccct actcaaatac cccagtaaca ttctctntat ttcgattcag 360  
 taaccattgg atcaac 376

<210> 15348  
 <211> 203  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15348

aggctcttac tccttcaatt ntgcatttca aagtctctga ccaaattctat gacttgcata 60  
 cctttaattc tttcatttac ttcgtaatac ttctggaaga aactccagat ntcattgtt 120  
 gatctgatgg ccatgattct agggagaagt tcttttgaga ccaccacaaa ccaagtagct 180  
 cttgcctttg actatcgtgc ttt 203

<210> 15349  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15349

tagcttagtt tatgttagtc taaacctaag agggctgtct aaattaaacc tagtcgaaca 60  
agagggatct gaggatgaag cttggattga ttcagtctaa ctagggatcg aggttttagta 120  
atctaggcta caacatagaa cacaaaagca taatttatta gataaacatc tttatataca 180  
tcagttgggtt cgttagaaag atctaataatc tttacctact gctgtcaatc ttacttactt 240  
gcatttgtat tgttttaacc tanactantt taatactgtc ctanatcata attatcaatg 300  
tttctttaac aatgccttat ttctgaat 328

<210> 15350  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15350

tcttatccaa ggcacattct tggtagcgaa gctccttctt ccatgactta ttccctagag 60  
gatggcacct cctctcacct cttctccttt atcttccgct gcaactccat ggtggaaaat 120  
caccattgaa ggacctcatt gaagctcana gatccagcct ccataaaagc tccacaagca 180  
agcttccatc aagtggatc agagcacaag agctttaagt aggtgctcct taaacctcca 240  
ttaatntnt gctttacctt ctcttccaat tttgtttctt catttttctc catgtatctc 300  
ctcacatgtc ttgtgctana tgtttttaac atgaattttt agagtttnca ccgattaaac 360  
ttgttataga agctatatatt tgatttctat ggttcaaatt tc 402

<210> 15351  
<211> 363  
<212> DNA  
<213> Glycine max  
<400> 15351

agcttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60  
ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
agtgattctt tccttctat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240  
tccacctctg cccaaaatta tctcgtgacc ataactccca ttttacacac tcaaattaag 300

tgattcttga tcctaaattg aatttcaaaa cgagatcttt cacctcgttt tggaatcacc 360  
tca 363

<210> 15352  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15352

tataatatat tgatacgcta ganattaaac atcggaagct ctcgaganat tcacatggtc 60  
atgacttttc agacggatgt ccgattatgg cgaatcacat atcgagacgc ttcataattg 120  
aacaacagat actctggaga aattcaaatg gtcataactg ctcacaccga tgtccgattc 180  
aggcgaatca catatctaga cgctcaaaat tgaacagagg atgctcttcg aaaattcaaa 240  
tggacataac ttttaactcg gatgtccgat caccgcgcatc acatatagaa gctcttgaaa 300  
agg 303

<210> 15353  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15353

agcttcatga tgaatcaaga gtgattcaaa gatgttttga tgataacaaa gatgataaca 60  
aaagatgatg acaaagggtga tgacaaaaag ctcaaagggtc aatcaaagaa tgagttcaag 120  
atattcaaga tagaatcaag aacacttcaa gattcaagag gaaagttgat ttcaagaatc 180  
aagaatcaag agaccaagat ttcaagaatc aagattcaag agatcaagat tcaagactca 240  
agattcaaga atcaagagaa ggcttaatat agataagtat ganaagggtt ttctcanaaa 300  
ttgagtagca catggattnt tctcanaaca tgtttaccan agagttttta ctctctgngt 360  
aatcgatacc agattgggtg tatcgattac cagtagcana atggatttga aaaagtttca 420  
aatgat 426

<210> 15354  
<211> 416  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15354

ctangatcan nattttntct ctcaactatt cttcattctt cttccttttt tcactttctgt 60  
tcttcctttc tcttgcacaa atttcacggc ttgtccattg gtgatgatca tggaaggcta 120  
aacacttaat taatccaagg atccactata agtaaggctg aatttgagtt ctggtttagt 180  
atttataatc tttgtgaatg ttcattcttt cttcaatcct aatttttatt ttcattgatta 240  
tgattatgat taggattgaa aatggattaa gttatggatt catttcctaa ttttcaaaat 300  
taatcacaga ttgtttggat gattntccaa cttaatttgc gatctcaaac aatntaagga 360  
ttgatttgat tgaactatct ctaatngcat tgactgaact ttcacactct gagcat 416

<210> 15355

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15355

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tgaagttccc cataatactt ggtggattga ttatggatgt atgactcatg tttctaataa 120  
gatgtaggga ttccttaciaa cctgaaccat aaacccaaat gaaaagtttg tctttatggg 180  
gaatagagtg aaagttccag tggaagctgt tgggacttat catttaatcc tagacactgg 240  
atttcattta gacttatattg atactttnta tgtacctagt atttctagaa atttagtatc 300  
tttgtctaaa cttgatgttg ctggatacct ctttangttt gggaatgnng tgttcagttt 360  
gtataaacgt acttgatga atggatctgg tacgctttat gatggttata 410

<210> 15356

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15356

tcagcttgac aaacaatana ttaggtttta tggtagtaa attataaatt ttggctaata 60  
aagaaaatga nagatgaaaa ctaanatacc taaatatcct cccatatcaa atccttctga 120



gtagcagggga cttccttcca agtgttgtat gtcacgtcga ccttatcatg agcgataatc 180  
 cccaaatata ttcttaattt cttcttgtgc ggactatcgt ccttcccggg cgcaggatcg 240  
 atgtggacca cccatctctc tgccccaggt ggtctagtgg ccaaagatcg tagtcgtgtg 300  
 gctttgcgtg ttcgcttcaa ggtagatgga aactctgatg ctactatagc 350

<210> 15357  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 15357

agcttccgat atgggctata cgaaagggaa atgggtttcc agaatggttt atctagaatt 60  
 gtggagtaag cttccggaat atccattctg aaagtgttat ttcgcagcat atttgtaatc 120  
 cagaacacca attttggaag tgacattggt tgtaaactgt ttcgggacta atatagtttt 180  
 gtctctagtt gtgtagctta tgttgattgc gttgtttagt aatgtcaata agatttttaa 240  
 tttcaatttt atgggttcaa tatgtatatg ttacacgtca tcaaacatat aaggccaaga 300  
 aaaataacta aatatttggt ctaaatatga atttatttcc agcatatggt tttgtcatag 360  
 atatcatcta cgatgaattg 380

<210> 15358  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15358

tatgccatta ggaggettca cccctgtgaa tgctgaaaaa cagctcctgt gtctgaattt 60  
 gagtcaccaa agttgtaa attgctgggaac caacattagc tgaagttaga ggcattccca 120  
 gctgaaactt gaatgaatgt gcatgctaca cagagatnga accacacaac tacataaagc 180  
 agcctcctac aattcatggt tgtggttagca atcactataa gtcttactaa gaaaatatgt 240  
 ttcttcaaag gtttcctcta ccaactcaata aatatggatc atgaagtggc gttcttagac 300  
 ttccgtgaag gcacttacta ttcatgcaa ctctgaagaa gagagattat atcaccgacc 360  
 atttttctct catagaagta tttcacataa 390

<210> 15359  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <400> 15359  
  
 agcttgatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc tttcccaaca tcaaagtaaa acgacattca aacagcacia 240  
 gctatcacag ccaagcaaaa cagagcaaag gcagataact ctgccaaaac accaaccaaa 300  
 tcacagcttt tctcacttaa agactccaat aacaattcct tegtccgggt tcattatacc 360  
 gtggaatcga ctcgaaaatt tactggaagt ctttagtaca taagcctaca t 411

<210> 15360  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
  
 <400> 15360  
  
 gatgcaacat ccggagaggt taatgaaaca acgagatgat gcgctccatg agatgttgga 60  
 tcaaattggag aatagagatc atactgaaga agagaggatg agaacaggga atgatggtgt 120  
 tcctagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180  
 tgatccggag gcctaacttg agtgggagat gagaatacag catgttttct catgcaacaa 240  
 ctatgaggag gaccagaagg tgaagcttgc cgccacggag ttttccgact atgctctt 298

<210> 15361  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15361  
  
 agctntcaac aaaagtcttc acaaataatc atcacacagc agaaacctag caagactacc 60  
 cataatatct cccaaaaccc cataccacag aaaatcaaga gggaaagaag tccacccaaa 120  
 cctgaatttt cgaagtccca ctcgtagcca cgcacttcac gaccccgaaa atgccctcct 180

ttcgcgattt ggagcagaaa tgagtaccaa aggttgagc tntgttggg tttcaatgga 240  
 gaatgaggga ggagaaaatg gcaacgtgag agagagagag agctgtctga ataagtgtgg 300  
 gggctgagtg atgagagaga aaaacttttt gggtttaaat aaaaggattt ccctcttttt 360  
 ttttctatta atttattcaa gctctgccac atgtcccta 399

<210> 15362  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15362

tctntgagca cagatcctga ctcaccatan accttgaccc agtgtgagaa tgtcaatcct 60  
 taccctcgga agcananaag gaagagaagg aaaattttcca atcaaaggaa aaaagagagg 120  
 aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aatagaaaga aaattcccaa 180  
 tcaaagaatg ggagaaagaa aaaaaagag aaggagaaga aggaaagaaa gctcctggtc 240  
 aaagatcgaa agataacaga agaaatatgc agagaggtct ttggaccaga caatatctga 300  
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaaccata accttaaagt 360  
 ggtcttctcc ctttgattac caaccacaat catgtgcac ggtgacttgt tcgcctcgcg 420  
 tcaaacaaaa acag 434

<210> 15363  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15363

agcttagtgt gagaganatt gactatgcgg agtgtcgcaa cctacccttc agcgggaggg 60  
 cgacgcgaga ctgcgggat gcgtgttcca cgaaaggaat atgcgcggag acgtcaccaa 120  
 cgcttatctg atgaaacgtc ggaccaaccg gaaagacgcg atctacgaac ttttaagtga 180  
 aatgttcggg 190

<210> 15364  
 <211> 461

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15364

gatcttcac catcgctgcc accatctttg tagttcctct cttatcttaa tattattagc 60  
actttgatta ctagccgggt ctttggctat aatattatta catttgaaca atttagtatt 120  
tctttatttg catggagtgt ttgaataatt atcaattatg ttatatgact atgtgatttt 180  
tctatatatc tgatctattc atgtttcttg cttcatgatt ggtttatatt tttccatgat 240  
tgttgctga atgcttagtt gtatttgtat gtttcaaact tgttacgcac tttggctttn 300  
tggtgatgct caacggggag agaaataggg attaaatcaa gaactcacat gagtaatcaa 360  
cttaattgta agagaagcta aattctaaaa caatggggag aatggaaatt atgtgagtga 420  
tcgactatga aaagtgtggt gcgtggtgtg tgtgttgtgt t 461

<210> 15365  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 15365

agcttcaaca aaattcatga aggtaacatc accaacttca acttacttga tcgaaggtaa 60  
cgatgctgct gcacggcaac ggtccatttg tacccaatcc atctaaacaa tccaacaaga 120  
caagaggaaa gcaaacaaca atacatcaga accaagcatt gaaacaaaca tataagaaaa 180  
aaaattaaga gagtaatggt tgattaactg cttaacatag gacaatattg gagaaactca 240  
caatttttgg ccaattgcct tgtatggagg agctggttgg agcagaaaag cgtaagcacc 300  
cacatgagtc atagatgtat gaa 323

<210> 15366  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15366

attgaataaa cacttaattn ttgtctgatt gcatcttatg ttaatcaaaa ctatgtctac 60  
aaccatgttt ctgggtttta tttcacgaca atgtggaccc ttcaaatgca gaggctatag 120

taaaaaaatt ccagatggat ggacgttatc ttagagatgt ctggtaaatt ctctgattat 180  
 tcatctgtct ggggttttggc acccttgcta tttgggtgtg taagttcaag attgggttgaa 240  
 ggatatttga taccctgcta tcatgcgagt ttgggacacc aatgatggaa ggctgaaatt 300  
 tctttgagaa aacaaatcgt tnttgtggac atttgtgtgg atntcttata tgtttctctt 360  
 aatattctct cttatcatg 379

<210> 15367  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 15367

agcttatcat agcacaagaa atcagcccct gcatcattca atttggattg gctgacacat 60  
 attgataaat agaaacaaag aaatccagaa tcaagatatt ataggctgac aaaatactgt 120  
 tgatgtagac acatcaaaag tttaaactcc ataaaaatcca tcctgctatt tcttttatta 180  
 catgtagctc ctttgtaaac gaaaaatggt ttatatgttc tccatttcct gcattgttct 240  
 caattggttt tcctttgacg gaacaagctg aaagcctttg taagagcgac atgcaaaaca 300  
 tgtgcataga ccaagacaga gtttgaataa caacgaaagt catgagtgca ttataactgt 360  
 tggacttggg aaaaca 376

<210> 15368  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15368

tgtacaaaat agataganat tattacttcc tccgtctcat gataaatggt ntctaagaag 60  
 aaaaaatgag tcttaataat tgttatttta gtnnttttaa tgtaatatta acaataaagt 120  
 tagttntata aagttattat tattattatt ttctttcatt tatatattat ttttcttga 180  
 tcttaataaaa naaatctagg agaaacttat tatgggatgt agagagtatt tttcttctat 240  
 atatatngat attttgactt ttttctccc actanaactn taatattttt ataaattcaa 300  
 tattattaat tatgccttcg agtccttttt ataagaa 337

<210> 15369  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 15369

agctctgagc caattcatac gacaataact ttttactcaa atatctgatt gagtctcgta 60  
 atataacgag acgctcgaaa ttgaatggcg acactcttat aaaattcaaa cgtcaattag 120  
 tatttactcg gatgtctgat tatgtcccg catatatcga gacactcgaa atcgaatggt 180  
 gaatctccta tccaattcag atgacaataa ctctttaatc cgatgtctga tttcgtccca 240  
 taatatatcg agacactcga taatgaatgt tgaactctga gccaatcac acgactataa 300  
 cgt 303

<210> 15370  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 15370

cgacctataa actcgctaac attcacttcg agcctacgat tttctggctc ttcacatcga 60  
 aaaagtattg cgttgatttg ctagagttca cattcatttc agcggttcgat tgttgggact 120  
 atagatatcg agtaaaagtt attgtcgttt gaattgactc agagcttcaa cattcaattt 180  
 cgagcgtctc gatatatgac gggactcaat cagacatccg agtaaaaagt tattgtcggt 240  
 cgaattggct cagatgttca acattcaata tcga 274

<210> 15371  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15371

agcttgatg atatgtggag cccaccttaa caatcttctt gggagcttta tgaggctttt 60  
 ttgaagggca tgaagaacac gtcgaagtc aacatggaaa catcttgagc tagatctctt 120  
 agtgagaaac ctataattct gcttcaaccc tctctttgag agtgaccac ttcagtattt 180  
 atgcttacia atctataata ttcctttgat agaagtgtga gatttaattc ttgagtggaa 240

tcccccttttt tgaggtgaag aactatattt tgtgcaataa aacacattct cttttctgta 300  
 tttaatccag caatggctag caaagctaan atcaagtggg gttgctgggc t 351

<210> 15372  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15372

tgaggtcaag aacattgaga ttagtggtat tgaacttgaa gaagctgaga gtgagataaa 60  
 naaaaactat taattaattt gttgtgaaca aaatagattt ataaaagagt agcttggtt 120  
 cctactagtc tggaatgatt attcaatagc ttggtttttaa attgtggtct acaaccgtaa 180  
 ttgtggccac aacattacta gtacatagtt gtccacaact gcatcaaccc ataattgtgg 240  
 tgtggaattc aatcacacaa aatgccacaa gcatccacaa cacagctaca atggaattat 300  
 aatagaacca caatggaacc ttgcactatt ctattcaact ttnnttggtta aaaaaaacat 360  
 attcagattg aaaccttcta ttataacttg taagtgtcaa tgatcaaagt tgtgtgacaa 420  
 tatgggatgt tgggagagac ccaaacttaa aatgaatga 459

<210> 15373  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15373

agcttctatc ttccattatt taaagagcag taacccaaaag ggtaatagtt tggattactg 60  
 agaattgaag cacaacccaaa gctcaaaaat ggtgtggtgt gcactaaaat tcttgacatt 120  
 ctatacaaat tcttctgtcc atttttgtgt atttattcat gaataactgc tgtcatccgc 180  
 aactttgaat gtgagagaga caagatcctt ttatttccaa ttgtcctaaa tttaagattc 240  
 aaccacttag aattcatgtc actgcttgat tcacatataa aagataaagt cagtcaaaga 300  
 catcttcatt tgaatctatt ccaatgtngt taattaaaaa tcaatta 347

<210> 15374  
 <211> 360

<212> DNA  
<213> Glycine max

<400> 15374

cttgaaagac taccagaata acatatgcta tctggaatct tccttgagag gttgttggtg 60  
gagaggtcca acacagttag gttactatgc ttccctagct cctcaggaat ctcacctgtt 120  
aatccgttag accatagctg aagaacctga tgcctatgca aagatgcaac accctttgga 180  
atcttcccag tgaacttggt tgagaaaagg tggagaatct tcagcctctg gagcttaacc 240  
acacgctcgg aaatctcacc cgaaagagag ttatcactta gatcaagaga catcatcttt 300  
ttgagctcga agatagatcc tggatttgac cacttatattg ttttgagag aagagatctg 360

<210> 15375  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15375

agcttgtgac tcttggcaat atctttaaca ttagtcactt aaaaagttgt gacttttgaa 60  
aaaatcttca gaaaaaagtc acttgaagaa ttgcgactnt tggaaaatta tttttcgaaa 120  
tcagtcactg gtaatcgatt accattaatg tgtaatcgat tacacatcaa tagatgtgac 180  
tcttcatttt aaattttgaa aattaaaaca tttagaagcc ttggtaatca attacaagta 240  
ttgtgtaatt gattatacca tgttaaaatg atttgaaaat gtttaaacac aagctgtaac 300  
tcttgaaatt tgaatcttaa tgtttaaaac actggtnatc gattactacc ttct 354

<210> 15376  
<211> 227  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15376

ntactcataa tccttcatat gagcaagagg tggtgtgctt ctcttgagcc tactgctgca 60  
tcttcttccc atcattccct agcccatcaa aaaaacctta tgctcaagggt gttaggtgca 120  
gataacagaa cctggatccc aaatgacagt aggtgtaaga atgagttcct acagattgtt 180  
gcggagatag agccatttgg caatgacaag aatgatgaag acgatga 227



<210> 15377  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15377

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agctntgctc acaatggcgg ttctgattgg tcatcaagag gaaatatatt tgcaaaaagt 60
ggattttatt gataaaaaca acatccattc attaaaaagc ttaaccatga agcaaggagg 120
cagagggaga aacaaaagct tcgaaagcca ttgttgaaga atatccaatt tttggagctc 180
tagccaatcc gtttcaactgt atttctcttc cattttcttc catttcattc caccttttat 240
atttgaagt ctctcatgan aatgagagac taaaaccacc tggtattaga agctctgcaa 300
accaaactct ctttaatgta attactctaa actatctatt aatatgatgt tgatattatt 360
gctctttcgt gtactcattc acatngttgt ggtctgatca tccattttca tgaacta 417
```

<210> 15378  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15378

```
ntaactcang tagagcacia ctaatcatca acatatcaca tatagcagca gcaagctcac 60
acaaccattg aaaaactatg cactactaaa tcaaacaatg tccaaaaaat agaaaaaatc 120
aacatgcaaa tgtcaaagaa atatagttaa atagaaaaga aggaaaatgt tagaaatcct 180
gngttgcctc ccagtaagcg tttctttaac ttcactaact tgacgcataa caccctcacg 240
agtcattggg ttggatgatg gtggtcaatc tctcaatatt gtgaccattg taaaccttca 300
tcctttgatc attcatgacc tagctatgct tccggttggt agaagaggng tccatcaact 360
caactgctct ataaagcttt acatccttga tggt 394
```

<210> 15379  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 15379

agcttgacta tgaaagcaga acctgaaatt tttgtaggtt atagctcaac ttcaaaggcc 60  
 tacagaatct acctaccaca gagcaacaaa gtaatcgta gcagggatgt caaatctctg 120  
 gagtcagata gttgggactg gaaaaatgat tagaggtctg agtttcagga agagaatgaa 180  
 gatgttgatg aagaacctat cagaggaacc agatcacttt cagacatcta ccaaaggtgt 240  
 aatgttgctg tgatggagcc tgagggatat gaagaagcta cagctgatca aaaatggaga 300  
 aatcaatgaa agaggagctt ataatgattg aaaaaataa aacatgggag ctggtggaca 360  
 gacctaacca ca 372

<210> 15380  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15380

agatactcag cttttatcca ggctcatctt ggtggtgaag ctcttcttc catggcttat 60  
 tccttaatgg atggcgctc ctctcacctc ctttccttg tcttcgctg catctccatg 120  
 gtggaaaatc accattaaag gacccattg aagctcatag atccagctc catagaagct 180  
 ccacaagcaa gcttccatca gtatcgtctt atatggacgt atcatctaag acacaaacgc 240  
 acagatacag atcataatct gataatacat atatagatca acctttatca ntngtattg 300  
 ttgcatctat acaaataata ggatnattat ttctctttaa acataatgta tntgagttac 360  
 attaccattt ttataaaaaa cattaaaata tcatcaaaat ttagataata gtattaaata 420  
 attctaaaaa ttaaaatatt ttttatgcct ttga 454

<210> 15381  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15381

agcttcact actantttgg ccactaatca agcatggaat aaagtcataa aaatacagaa 60  
 aaagaaaact tgcaggggaa ccatacgatt tcggggggaa aactcacaca cagcaccgat 120  
 gtgatacaca ttgcgggaga aaagtcaaat gttactgcgg agagtgatga gaaaaggcaa 180

caagagatct agagaatgaa attgggatct caacgctggg tagaagcaat gtgtgtaata 240  
 gtaaaagtaa aacgttattc tgaatttcag gggcattttc tcagcaaaca aaatcagaat 300  
 ccaaaatata gtacacatgg aaagagttc 329

<210> 15382  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15382

attacggacc taatagactc agcttgctct cnacaacttg gttagctaga ctagtcttctt 60  
 ggtattgaag tcaagtattg tctgataga tctattatga tgacacatat gaaatacatt 120  
 atggacttgt tgcacaaaac aaanataacc gaggctcagc ctatctcttc tctatgggtt 180  
 cctcctgcaa actctctaag aatggcagtg atctctttca tgatcctacc ttatttcatt 240  
 cagttgatgg gcactccaga atgccccttg acccaccag agattagcta ctctgtccac 300  
 aaggtctgcc agtttatggc tcaaccttta gacactcatt ggactgctag gaaacatatt 360  
 ctgcactatc tagagggtac tgggtcttat ggtcttcact taacacctgc tgctc 415

<210> 15383  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 15383

agcttggatt tcatttgttt gtacatatat tataggctgt gttccatttc agtatgtctg 60  
 ggagagggaa tggatcaaatt tcattaaatg ccaatacaag cacatccaca ggtgcaacaa 120  
 gcagaagcaa aaatgcttca tgaaataaga ctgatattgg gtggaaacat gggatagatg 180  
 ttttatggaa tggtaaaaaa gttaagagca aatattgctt atagatcaac aatgggagaa 240  
 ttttcatatt caagcatcat cttgttggga ctgatggga ttttgaacca gttcatgtgt 300  
 cgtggcagac ccgcacactg ttgtctggta gaagaagagc gagacggtaa gccttggtat 360  
 ttcgatatca agcgatacgt tgaaagcaaa gagtaccac t 401

<210> 15384

<211> 405  
 <212> DNA  
 <213> Glycine max

<400> 15384

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cttgatatta gtgtatgtct taattgggtt tcctaataatt ttcataagtt ctcctctacc 60
attcactgga tatcttccat ttgacctatt tttctcactg gagcatctct gtcttcttat 120
catattagaa aacctcctta cacaagtttc catcgtcttg tctcctgtag ttcaacccta 180
actttatctt gaatacaatt attcctaata ttgcattgta tgttctccca tccacctctg 240
aattctcggc tatgccacac tctgtttttg gtctagctgg cacttgactg ccatagtgc 300
atattcattc catcgttatt gctgtcatat agcacgaaga gaattctaac atttgggaca 360
ctctttatac actctacctg agatttaatt tttcacattt gatct 405
```

<210> 15385  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15385

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caagcttggg tctcctcttg acattttgga ttccttaaga gtgcaaaacg ttattctaga 60
gagtgatggt aaaactattg ctatgaacat ttaatcgggtg gttgttgaca actcctagtt 120
ggggagcttc attcaaagtt actggatgag tttagtacaa aatccaactt ttatagctgc 180
ttttattang agacaagcta atggaataac tcatgatctt gctaaggcaa ctccattata 240
ccctagtctc tacacttttg tgtgaatgta tgtatacagg ttttaatgat gtcaaagacc 300
aagattgctt caagccttan atcaagatcg agaaactaag atcaagagtt agataaagag 360
tttatttggt aaaagaatct cacattggat 390
```

<210> 15386  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15386

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tgtgacacta ccncattagt tcttaagaag gtattggtag tcatagtcac aattgagtt 60
```

tggatatttac caagtacagg gagatattca tgtaatatgg tagttaagga tggagtttgc 120  
 cagaaataac tagttgaaat ttgtgacact atcccattag tttcttaaga tattggtaat 180  
 cataatcatg atagagttct ggtattctca agtacaagag atattcatca tgagggtanag 240  
 catcttttgt tattttattga gttcactaag ttacaagtta tagacttata gtctgtcagt 300  
 atgccttctg ttagcttata acaagtcana agcctagcac tagctcatgg actcatatga 360  
 natcaaaaag ttctt 375

<210> 15387  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<400> 15387  
 aacttggtga acgaggtatt gggcctgtat acaacgtatg cgagcaatgt accatctata 60  
 attaagaaaa gacaaagctt ggaaattatt attattcact acatttaaca gtcttttcca 120  
 caaatgttgt gtttaaggga cacttccaga tggactagag gtcgctgtta agacgctttc 180  
 gcacacatct ggaca 195

<210> 15388  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15388  
 gcttggacat catgtgatgg tnttctctaa tatcttcaca aaatattgtg catatgattg 60  
 aacttataag atcatctcta atgcaggtgc ttcatggggt gcctaaaatt aagtgaagtt 120  
 acttaacaaa attttactat ttgagcaa atgatctggcgc tgcaatgctt aagtgatatg 180  
 cttatataaaa caattaattg cttaacttca atttatcgat taatgaagca tgttttaatt 240  
 acacaatata atgtgggtca agttcacaac acac 274

<210> 15389  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 15389

agcttctatt ctctatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgagttaag atatcacaaa ctatttcnc aattaaaatt 120  
ttatgtcact ttctattcaa gtgataaatt cccttaacaa tgaatttctt atatattgat 180  
tcggatagag caatttgaat atgattgttt aacaatcatc aataaaggag tttaatggaa 240  
gagagaatgc atactcagaa ttatactggg tcagtcacac ccttgtgcct a 291

<210> 15390

<211> 330

<212> DNA

<213> Glycine max

<400> 15390

tccataattc cttaaatgct tcagctggag cctcctgcag tatatccttt ctaagcacac 60  
tataagcact cttaaccgag taccttcac tgatatcagc ctccacacc cactgatcct 120  
caatgacatt ctgaattctg atccctcca cctcttgaat aaatgcaacc gcctgatcta 180  
tctcattgtc aaatagtggg ctctccact tgaagtccca ttccatcct gttcctttga 240  
attctaccat atcctgagat aattggctgt gctgaaccga tatattgtat agcctttgat 300  
atttctttaa taaacaaatg tcttccccta 330

<210> 15391

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15391

agcttataat aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taagacgcat 60  
caacaagaat caagccaagg ctattgtgca agcagtcaat ggggcaaac ataccaaatg 120  
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
tgtcanaact atcatgacat gtagagaaga ataaggattc aagtacaaaa tgtcaagaac 240  
ttttatttta aacaattacc catgtttgac atatcctata attcaagaaa acatcaaagt 300  
ttacgtgcc aaaaatgacc aaatattaac tgaaatcgac aaactacaca taacaattac 360  
acactaataa ttacaaacca c 381

<210> 15392  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15392

tcaagccaag gccagactnt catgcatgca gaggcttctt catagaaaat gccanactcc 60  
 ctttgcaaatt ttgatttcat gcttaaataag gtggccttct tcatgctcgt gtgcttagca 120  
 cacgtatgga ccgcttagcg cacgttagnt aattttgtct tatcgcgctt ctctcactta 180  
 tcgaatgagc tgaagcgggtg cgcttgatga cctgnagcag tgcactcagc gatcctggca 240  
 actcatcttc ttctggattc tttctcccg c ttagccactg 280

<210> 15393  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 15393

agcttgaatg tgtgtaaccc accatttttc catataaggg ttgtggttgg gggagaaatt 60  
 gaggcccctc caaagtgttt tgcaggggta taccaccaac tgcttgctt ttagtgccat 120  
 atctgaggca aggctcgaag tcagctagat tgtggtgggg aatttcatgt gtctccccc 180  
 tgggttgaga gacatgtgca tgatccgatt gaggttggtg gctcttaatg agtatgggaa 240  
 tggagctatt gacattctca ctgggagtg atgccacatt tgggtggtgta tagttgggag 300  
 gcaagccata ccgctggaag gcgtgcttgt ttg 333

<210> 15394  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15394

tgtagagatt tcttcattat gtttaatcga ttaccaatta ttcataatcg atttcacaat 60  
 tctgttgaga ccatgtcttg tgttcagtag tctctgctt aatcaattac cagggttatca 120  
 taattgattg catcgttctt gacagtgttc ccaggagtga tcaagaacac tttaatcgat 180

taaatcaaga atttaatega ttacattggtt cttganagct ttccagggtt tgggaagaat 240  
 actttaatcg gttaaaatga gaatctaate gattacttct ttgagataat caattacatt 300  
 gaanatgtaa tccattacca agcgggtataa ctagtcttttc tataaattac caccttggtg 360  
 tctcactttt aacagcgaaa atgaatgagc tttcacgact cacattctaa tccttggttc 420  
 tgaagtttca aaggtaaagt gagttgtgat atctcttg 458

<210> 15395  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15395

ttgaagatga tcaataacaa tgcctatagg ttggaccctc cagaagagta tggagtcagc 60  
 accactttta acattcttga tttaattcct tttgcagggtg gagctgatat tgaggaggag 120  
 gaactaacag atttgagggt aaatcctctt caggngaagg gaatgatgca atcctcccta 180  
 agaagggacc agtcactaga accatgatcc aagaaaaatgg gctatagctg ctgaagaaag 240  
 tcctatgggt ctcatagaacc tcacggtaga tttctgtgcc catggggccaa tgatgggtcc 300  
 aattatcttt gtacatatta gactacgatg tcattata 338

<210> 15396  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 15396

tgagatgatg aagtgttgaa ggggtgaagct tcctgcttct attggtgacc acagagtggg 60  
 acctggagat atgtcgcggg ggtcacgaga ccttggtggac gtcacgtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaccca acccgtgcat agtctgtcag tgagaacctg 180  
 tgatgtacct aaacaggcga gcttcttgca gtcaacagat aaaatgaata caagaccaca 240  
 tagcacggaa gcttggtggg gctggccagc tagtaatttt gtgtaatatg tgagatatgg 300  
 cctctggtaa tcgat 315

<210> 15397



<211> 321  
 <212> DNA  
 <213> Glycine max

<400> 15397

agcttaatag tcttcacctt acaggtcggt tttatgagat tgagttaggt ccttggtca 60  
 tattctaaga tgggttcaaa gtctatccta gatacatcat tgggacactt gcattgctac 120  
 actccaagct agtagccctg agcatgaaga agagagttag aaagtcgtct taattgtggt 180  
 cacccttacc acgccttagt tgcagcctct tagagggcca ccttaattgc aacctcaatg 240  
 gtagtggtta gtctcacatc aactagagat atgggttaaa tagagcttaa taaaagttga 300  
 gtagtcatca ccttacaagt c 321

<210> 15398  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15398

actcagcttt acacaggatg atcatagaca ttatagcagt ataacaccca cagattacaa 60  
 gttaaacttg aatagagtaa ttccaattaa ctctgagaat aaatcatgat acacataaga 120  
 gacacacagt aggaatagag aaagtggggg atatgtaaca caggtataac acaagtagtg 180  
 aaacatctnt aaatcaattt cctcagcaag acatctttgg caaatagtac acaaaaataa 240  
 attttggtta aaaatatctc aattaggaac aattaattac tcaagtattt tacaatatct 300  
 acagagtggg taaaatgtaa ccatttagtg atagtaccaa ccacttgagt ggttattttt 360  
 caaaataaat aaaaccatct tt 382

<210> 15399  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15399

agcttggaac atacaatctg aattntaggt cctcttaagg acttagtcaa aatatctgct 60  
 ggctgatcat tagaaccaat gaactcagtg acaatctcct tggacagaaa cttctctcga 120

atgaaatgac aatcaatctc tatgtgctta gtcctttcat gaaaaactgg gtttgaggca 180  
 atatgaagag cagcctgatt atcacaatac aacttcattg gcagctcttc acaaaacctc 240  
 aattcctgca gaaactgttt aatccacatg agctcacaag taaccatagt catagatcga 300  
 tattcagctt ctgcactgga ccgagcgaca actgtctgtt tc 342

<210> 15400  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15400

tggttgact tccagaatgt tgcgaaactn tacggattac gcaacaatgt ttgctttgac 60  
 ttccggagtg ttgcgaaact ntatggatta tgaaacaaag ctcactntga cttccggagt 120  
 gttgtgaaac tttatggatt acgcaacana tctactttcg acttcaagag agaccacaca 180  
 aagttcgcaa gccgaccgcc agtgtccctg gacgaaatta gggatatgaca gttgtccctc 240  
 tttacttata ttttattgga gataaaaggg aagtaaagat aagacactaa tttcgttcga 300  
 gccgaacctc acctgaccga ccactagccc aacccgcgaa acctatcaat cagaaagagc 360  
 aaaaaggtag caggaacatt agtacaaacc tcagtgtcgt ggaagcagta aaaccgggat 420  
 gtcaagacgt nccccgatgc tatcgaacta atcatctctg ttaaca 466

<210> 15401  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15401

agcttanata tcacaattct tgatatgcag atatatatgg cacagatgag aagcaatcta 60  
 tcagcctctg tcttgactaa ttcctttntt tatgattata agctgcaatc aaaactaaaa 120  
 tggacatagc ttccttgatc tcttaagagt agcgtgtgtt tggttttacg atgagaaata 180  
 tcaaaattga ttttgctctt tataagaaaa acatgatctt agaaaagata gatgttaaca 240  
 agtctcatat tgtctgcctc aattattggg gagaaattta tatatttatt ggataatttc 300  
 attntgtctt aattggttnt aaactganaa ctaacataat ataagagttt ataacctatc 360

ttagttctca tcttatatat tatatattag aaatataaca ata

403

<210> 15402  
<211> 192  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15402

ctgctgctgt gcttctcggt ctcttctccg acgctcttat gacagctaac atgtctttcc 60  
ggaaagaccg cacatgtggt caacgaccac ctgtgcccta cacatcacca nattcatttc 120  
aactcattac tttatatatt atcatcacca tgcggcaatg atgttgaacg agatctatga 180  
ttcatacagc ac 192

<210> 15403  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15403

agcttgaata acccaattgt atgtctctgt atcaggcttc atgtaatctg ttatgtaaca 60  
aattaaagat aatttacctt gcatagaatt aataatgaag aaagagaatt taacaattta 120  
gaaaagagca tcccacctcc acaacacaca gaaacaaaaa agaagaaaga taccataaga 180  
attgaaacat aattgtgaac ccagtaagag tataagaaaa agaaacgaga ttcccttaaa 240  
atggtaaattg aaatctttat aagtaaaca atataagcat cagaaaaaga agaaagagga 300  
agagaaagca gatgtggagg gcaaaccctc tccatattcc atgttctcaa atgttgcaaa 360  
agctatttca ggtattccgc aggtagccta atgaatntgt aagaaataat attaagaaaa 420  
cataatg 427

<210> 15404  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15404

ctttacagaa gtagataga agaatatgga taaataataa attcatttta taaaatattt 60

gggtttaaaaa agtaagacat gatgtacttt aaatgaagta attggatatt catcatctac 120  
 ataataaaat agttaaatac attaattatc tgatttttag tatattttta atgaaatata 180  
 ataaataatc tataaaatat atatacacta tcatctaatt ataaactctc tcacacacac 240  
 acacacacac atatatatat atatatatat atatatatat ataataaaat tatttgatgt 300  
 ttataataat tatattaaaa aatatataaa caataatctt tattaattaa gagtgnaaa 360  
 aaatttacac ataaacatta atatcataga ttcattatat aaa 403

<210> 15405  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15405

agcttctata taagctgaac cattntatta ataaacacaa gttgagttnt attcagaaaa 60  
 ttagagttha tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tcttctctt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240  
 tccacctctg cccaggatta tctcgtggcc ataactccca ttntacgcac tccaattaag 300  
 tgattcttga gcctaaattg actttcaaaa cgagacctt cacctcgtn tgcaatcacc 360  
 tcatttggag ccattgtagt tcagttattg ccatttctat atttc 405

<210> 15406  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15406

taaaaatact gcgcaatatt ggctggaaaa tatcagtcta agctacttca cgaccgatgt 60  
 cgcctattga gtgttctatt caatccctta atgaaatatg catgatgtcg gtatggaaat 120  
 gttcgatcgg tgtcatgcgg tgatgctntc cttttaacct cgatcgggtca tctttcctgg 180  
 ccgacgtcga ctgtcaattn ttctgatcaa tatcgagag aattatgttt tggccgagat 240  
 gggctaaatt ttctcgtggcc gaataaatgg gaacatgccca gtttcggccg aaataaaatg 300

tcggttgagc ttgcacaaca atacctatcc gacctacatt gtacattatt tcatcaacac 360  
caacacacg 369

<210> 15407  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15407

agctttacat gtgcggggtt aagaatcgaa ggccaagtca ccgcgatata cgaggatgac 60  
tccccaagga gatcggattt ggtacagcta tgtcctcccg atttccgact atgaaattgg 120  
cgagtggagg aactcccgga cgtttacgcg acaagcataa tgtatccttt tgtaatttta 180  
aaactctacg gatgggccta ggcttttagag tttccttttg ttaagcatta tgtcttttgt 240  
ttttgaagtt ataataaaa gatctttctt catctgttcc tgcgcctcta cccattctca 300  
ttcatttgca tgtttatttc tttacgctta anaatgctag atccgatgac gagtcctcgc 360  
aaggactaa taccggggac ccagccgtca atttcgagca agaagcgggt cgga 414

<210> 15408  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15408

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cgtgagctca gttggagggtg ggcaacaggg gatggtggat ttatgcgca tttgtggatg 120  
tggaaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180  
ccataatcct acaagcttga gatgaggaag tgtagaaggg tgaaacttcc tgcttttatt 240  
cgttgaccat agagtggtag ctggagatat gtcacgngg tcaggagacc ttgnggacgt 300  
cagggtgngt gctattgcc aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag 360  
tcagtcagtg agaacctgtg atgtacctaa gcaggcgagc tcttgacagt caacagat 418

<210> 15409  
<211> 355

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15409

agctngtcca caaaaaatag ggttttgaaa gtttatcatt tcagtttctt accaagtaaa 60  
atggatcatt tttaagggtcc aacgacttaa aatgatcacc tttcaagtaa aaagaatcac 120  
ttgattcacg cataagaaaag aactacatag gtctgatttc ctctttgatg gagggtagct 180  
aggagcaaaa gccccgcttt tgtcgacctc aaaaaataaa aagaaataaa gntaaggtaa 240  
cacaatttcc acaattctaa aanataggct gttgtccttc aagacaaacg taagaagtgc 300  
taataccttc ctcaaccgta aatacaactc ccgaacttag aatttcattt ttgat 355

<210> 15410  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 15410

tctctgaagg gcatggttat ttccagtttc ctggaaatat ctaagaatct tgccaaatgg 60  
cggtccttct ccttcttgga aggtaccata cgatatggta ctttcgaacc ttcattcaca 120  
gctttttctc ttttattctc tctagcttgt tcacttctac tcctctcttc attcttattg 180  
ttttcatcta tttcaatttt ttcattttct ttttcttttt ctaattcttt ttatttttct 240  
tggtcattta attctttttt cttgaccatt atttcgtttt ctttttccta atttctttca 300  
cttctcatat catctgtctt ttcatcagta cctttctttt caataacttt cttcttggat 360  
ctaacactat cctcatcttc tgccctcaca aacctcttac tctttgcac acagaattgc 420  
attcc 425

<210> 15411  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15411

agcttagctt aaaattaatt tanaattctt acaagtattg caaaaattat ctacgaatta 60  
tggattgaaa tcttgtaa ataatgaatcc acttttacca aaatttattg cttcttttct 120

tactctaaat gtttgcataa actttttataa tattttacata accttttangt gatatatattca 180  
attatttcatt ataattntttt tatctagagg atntataaca acaactcatg taccttttatt 240  
taactaattg aactanattt cttgacatcc attatacatt tttataatat aaaactaata 300  
gcagtaaaaa tatattatca actattcagt aacaattata aactgccttt tnngttcct 360  
aattntgttt tttttaaaaa aatctt 386

<210> 15412  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 15412

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tgtctacaac ttgcaaacta agaaactcgt catcagccga gatgttgaag ttgatgagta 120  
cgcttcttgg aattgggatg aagaaaaagt ggagaagaac gttcttatac ccgctcaact 180  
acctcaagaa gaagctgagg aagaagaccc aggtgaacca ccttcacctc cgccactaca 240  
actagatcaa gaactatcat caccaaagtc tactccaaga cgagtaagat cttgtgggga 300  
catatatg 308

<210> 15413  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15413

agctntctaa gagcacgaga taagaaaccc ggaaactcaa gctacatatt ctatttgatg 60  
gcttaaggta ttatcgacga atacctgtta acaagattct tgataactca ggttatgtag 120  
ttcctcgga tgttggtggt taatttctct tgggttcaaa aatttataat tgaaagaacc 180  
atagacgggt ggcacaagat ggtttaattt atttcanatc cgtaagcatg aagaacactt 240  
gcatagtttc gttcttaatt accangtaag tgcgtgcatt gcaaacttgt canagagaaa 300  
tgcagactgc atttgcaaaa ttanacggtg actggatcac caatcacaat tnttcttttc 360  
tttttc 366

<210> 15414  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15414

tagcaggatg aagttgaggt ggaatttggt atgtatgaaa ctgtgcaaaa ggtagatgtc 60  
 atgaagttgt tacaacttgt agatttggtta ataattattgt agttaactac agatgatctt 120  
 aatctgattg ctttggaagt gtattgatgt caacacaatt ggtcatcata tacacagtag 180  
 aggtataatc atgctaattt actgggttac atgaagtttg tcatgttcaa aatatcacat 240  
 atgcaaatta atgatacctt gtagacaata gcctccgaaa ttgattatca tgattcaaaa 300  
 ttaaaagtta caccattaca ctgtcatacc atntaaccga cagaaagtat ttaatacaaa 360  
 gtcacactat acttgaaata ctccacatct gcttaagaca ctangtataa cattgcatga 420  
 agatatatgc attcacataa 440

<210> 15415  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15415

agcttgtcca caaaaattca ttaaaaaagg atttgaaagg ggccctatac ccgggttcat 60  
 gggaaatctaa ggagtggagg tgaatctatg atcatgctan gtctccgact tgcttgataa 120  
 tagtgaaacc tcatctagag ctttctctct ttataatatg ttgtcgccgg tattccatac 180  
 cgccacaata ttattatatt gagtgatgat acctctagaa aagggtcatg tgagttatga 240  
 atngttggga gtagttatta gagacccta tatattgtcc tatatgttcc caaatagggg 300  
 catggagcga acacgtccg tgccaattgt tctcatgc 338

<210> 15416  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 15416



ccttctccag gtggtctttg gcatcacatt taaacttgaa ccattgtcgt tgagtacctt 60  
 cgcgacgaca tgggtccatac atctgactga cacatgtaga gccttgttgt gccctctccc 120  
 ctcaatggga atttcttctt ccgcaaacgc gatataatta ttggtgggta tatgattaac 180  
 aatgccttca aaaccctcaa ctgagatgtc gtgtgctaca tgtgcttcgt tgaggacttt 240  
 tatcaacagt gcacgatgag gctcagagtt tatgagcaat tcgagtaaag agattctcat 300  
 cggaagttta ttcagttgct caactacttt aaactcgctt tgttggatg 349

<210> 15417  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 15417

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 gcaaaattgg ggcaaaagat gaatcgagtc atatcactgc ttcgtctact gccaaacata 120  
 tttaggattg ttgatgtcct tgttacttcc agtttcacct tgacaaagat gtcattggacc 180  
 atgttgaaaa tctaaattga ttcaacccca tatcctgcgt aaaaattcgc aatacttcaa 240  
 ctgtacatca ttgcataca tccatgcttt tcattgggtg cattgctcat tgcattcttt 300  
 cctttgaaaa taaaataaaa taaaataaaa taaacttaat ca 342

<210> 15418  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15418

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 ggtgctaagt ttctagagag tataagctct gtgacagaac aatgtggcgt tcacttcggg 120  
 tgaaagacta tggccagcct ttgctttact tcaagaagag ctcaccaacg cgctgttct 180  
 atctcttaca gacctttcta acacatttga gcttgaatgt gatgcctctg cagtgggagt 240  
 tggaactata ttgttacaag gtgggcaccc tattgcttat cttactcgac gaataaactg 300  
 caaccaaga ggtgtggcca tgctaacaag tgtctgtgta caaggagaat atatggaggg 360  
 tcgctagatg ggaaatccct taatatttgc tttatttggg aagggttcc ttctagctac 420

6485

ctctcggaga gacacttact cttcactctt cttaccatta aggtggtctt cttctgggtg 480  
atgtctcact gatcctccct t 501

<210> 15419  
<211> 362  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15419

agcttgtata ttaattggca tacgaattca tcttctactg aggtcgcgag tatccaaatt 60  
catctcctat tgattntgag tataatccca gtacttaaat ctttaataata tagtttataaa 120  
cataatattc atatttcatc tcttttaaagt tagaagtaat atttaaaatt aatagataga 180  
gcagttatgt atgtgtgtgt ttggttcatg agattagtgt gttatttatc caacattnta 240  
atctcttcga tgtttctaaa tcantaataa ttgtctcaac tgcattggatg tacttaaaaa 300  
catatttggt atattataat atcaacaata ttaacatata taattgagaa ttaaacaatt 360  
ta 362

<210> 15420  
<211> 349  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15420

tctccttcct tttcctataa ataggagaag gagggaagaa caaaaatggt caaccctcct 60  
ggatcttgag attcacttac aattagttag aaaaattggt tccgtgaaga acatccaagc 120  
caaggcgctt ccgtaacgct tccgtgatgt ttctgtgggt gatttcgcga agattntcaa 180  
ctgttattcg tcgatctttg ttcgggtcttc ttcggttcttc ggtcttcaac cggtaagttc 240  
ccgaaatcaa actcttcaat tcattctatg tacccttagt gtccctcatta gtttcgcgtg 300  
cttttatctt catttcaact actcttcgta cctcctttat gacgtgctt 349

<210> 15421  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 15421

agcttatata ttactttacc ccgggacgac cagtaaact gcctcaatat aaattcaaaa 60  
tcttcataag tatattgaat gtagaattac cactaaacgc gtacattaat taatgtggaa 120  
ttatatcaat ttagagattt caaattataa tcctagatat gcagaatccc attaaatatg 180  
aactgcccta catcacctag aaactttttt atcaccata ttat 224

<210> 15422

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15422

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tggtggcaga ggccgttgac tttttgatat attggtggat tattagtata ttttgatgca 120  
ttatgcacaa ttattgttgc ttttaacatat tttttagttt atgttgtgga tgaattacct 180  
tttttttttg cggtcacatc tgtttaaaca acacgtgcct tagaacaaga actatTTTTT 240  
tattgattct taaacaaaca ttaacatgaa caacttaaaa agcactaata atactaaatt 300  
ttgttaaaac catcaacgta 320

<210> 15423

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15423

agcttgtgac ttgcataaac tccttttcag tggatgacaa tagaagctaa aagttaccaa 60  
gcatacatca aactgtttca aaaagtccaa ctatcatTTT attcttaata aatgggagtt 120  
accagtataa aataaactat ggctgcaaaa ttgtacttca aaaaaatata aaatataacc 180  
tgatcaaaga catcaatata gactttgtgc agagaatgag aactgcagaa ctgattaatc 240  
tcatgatgaa tcttgtcata tatccatgtc ttatcataat gtacaccata gttgagcaat 300  
gtctcaaaga caaatTCCTT atggagttga ttcacaacct anaagaagaa tatgcatcac 360  
tgctatgaaa atattgaaga tgtgaaaaga aaacact 397

<210> 15424  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15424

gntgtgaaaa gagannaaac tgaaaacttg ccttttcctt gattngcata agaagttcat 60  
 cgtaggtacc agcagtctct ccatgtttct canaaggtaa gagttcataa tgcaggggaa 120  
 agggtaaaac cttcaagact tcaaagaaca catcanagga gaagttgaga aattttttga 180  
 attcattgac actatttggt ggtgggattc caatcctcaa ctntgctggg ggctctgttg 240  
 tgttaccagg ccatttttgt tgctctaatt tagaaagccc nctctctggc atccaatttc 300  
 caatgctcct ctctgtttgc tccacaacat tgaacacctc aagaattgat ggctctaggt 360  
 tgtctttaac caaatggaaa ttac 384

<210> 15425  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15425

agcttcctta tgagttgcga ttacagttgc gaatggttca gtttcagtga agaggaaggc 60  
 tgaactgcga accgattcgg ccatggttgc gacgaagaga tcgggttcaa tcggagggtc 120  
 tgcgagtgc ttttctgcgc cgagatggaa caacaccgga ggattgtctc ataaagcggt 180  
 gatcttcgat ggaaggagaa aaatcgggtgc ggaatctgcc gccggatcta ggagcagctn 240  
 ttctgtgggg agcggcctgt gcggagggtg ctaccggagc tccgacgaaa tttggtgact 300  
 tcttcacaca ttgttgtgaa gtccggttgag gccttgccga cgacttcgac ttcgagaact 360  
 tccggtgcga gtaaggtgga gacngcgaag aagccggtga gtaagccaac atta 414

<210> 15426  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15426

tagctaaata tggatgttat aacattggga atcatagtcg gtattatcat cctcttcctt 60  
agaaatgggt gctacttctt catcgaaggc acttgcaact cacgctctta acactaacac 120  
tcttcaatct ctctctattn ttcaattcca tggcattggg tagaaaaaag agtgtgcaat 180  
tagcattttt gcttctctc tttttgtgtt tggatctggg aatagcgcat caacatcagg 240  
gtcattctca ttcccattct ggtttctgtg catccgatgc ccatcatcac tgtggagatg 300  
accatctcca 310

<210> 15427

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15427

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gcatataggg ctactgacat cttggaattg atacatacgg acatttgtgg accatttcat 120  
acacctttgt ggaatgggtca acaatatttt atatcattca tagaagatta ctccagatat 180  
gcatacttgt ttcttataca gganaattca caatctttgg atgtgttcaa aacatttaaa 240  
gttgaagttg aaaatcaact caacaaaaga ataaagtgtg tcagatctga ccgtgggtgg 300  
gaatactatg gcagatatga tggttcaagt gaacaacgtc cggngccttn tgccaggtag 360  
ctagaggaat gtggaatcat cctacagtac accatgtcgg ngtcacctag catgaa 416

<210> 15428

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15428

tctcatcatg ctgcttctga atatccctat ctgttngcac tgtcagcacc cttggttctt 60  
ccaaatcaat accaccatgt tgttgccctca atggtcttac ttgtacttga tcactttgga 120  
caaaacgcat tatggtaagg ctaatcccgat gatgttccac cattctccat ccatagcaca 180  
atgcctctct atcatctggt cctccanaga acaacactgc tacatgatga gatactngat 240

ttccccgctag atgggttagag ccacttaagc ctttatccac taganattcg accgagcaag 300  
 ggtgcattgc tagcacatac tgggtgatgg atctgtatg 339

<210> 15429  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15429

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 cctcaactgg aatcatgaca ttagtaccat tagtcaatcc aaaaaaagta tagtaccatt 180  
 tattgtggat tgtggagtgc aatggtatat acccctataa tatacaagac aacttctcaa 240  
 cccaaagacc ttttgctntg tccatccttt tattcatctt tgtcaagatg accttggtcg 300  
 ttgttgctgc ttgtccattg gtttggggat gttcaataga agataccaaa tgtttgatg 359

<210> 15430  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15430

tgtatttaan aatgtntan aaataccttt aattaatatt tgaattttta ttcctttatt 60  
 aatatatatg tgaggggtag aggggtgtcac atttatggct tgtacttgta ccatatgcca 120  
 ttctcggttt tcttcttaga atcgcacatn ttttttcctt ttggtcttgt ttctatttag 180  
 ttatatatgg ctcaagttga agtccaattt gcaattgaga atagactttc atttttgttc 240  
 tgatctcaca atctgcatgc attgtttagga tcccttgat tttattatcc gcttaagtgt 300  
 ttagagtga tcatcataaa tttattctat ttgtaagaaa tggtttagtt gattaagatc 360  
 agaggatg 368

<210> 15431  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 15431

agcttcttat gcaaggaaac tcttggcggt gaagctcctt cttccttggc ttattaccta 60  
gtggatggtg cctcccttct ccttttctcc tttgccttcc gctgcatctg catggtgtat 120  
aatcaccata gaaagaactg attgaagctc agagaccac actccataca agctccacat 180  
acaagcttcc atgatctagg aaacacttga tttgtggcca aatcctgagc ttgaattaat 240  
cttgaagcaa tgcttcgttg ttgaaacaac cttgtattaa tcttgaagca atgcttaaca 300  
tttgaatggt tgttgaagta atcttggaaa aaccttgttt attattcttt ggcatcatca 360  
aatcatgatt atacattcac attct 385

<210> 15432

<211> 492

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15432

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ctggggatgc tcttgagatt caacttctac ctcacagtga tggaactcac attgtgcaga 120  
acctacgcaa gccgttgaag tcctctggaa gaatttacgg acggagcttg gttaactgac 180  
taaccttctg ccttatcttg atcgtgaaaa gtctgcctgg aggctctgga ctctaactga 240  
aattgatcat cgtggatggc ctattgctca cttactctgt taatgaacgc tgacgacgaa 300  
ccgtaggtgc ttgtggcaaa tgtgcttttg ctgcgatata ggatgaagga catataggtt 360  
gcgtaggaca ccacaatttg gaatgacgca aagctgttgc tctttgaaga ctactcacgc 420  
acacttgcatt attatctacc tgtaatgcat tgagtgtgaa gatctagggt actgtgttgt 480  
agatttcttg cn 492

<210> 15433

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15433

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agttggaatg atttgcattt caagcatcaa atcaagaacc caaatagcat tttcaatctt 120  
 ctttgaattt gcaagccctc taacaatagc gctcatagca acattgtggg agctgatacc 180  
 aagtgttttc atttcatctt gcagtttcat tgctcctttt atgtttccaa ctctacacat 240  
 gccattgatt aaagtgatat attgtttatt tgtaggaaca gaaccacttt ccaacaagac 300  
 ttgcaaaaca cgatgggcct tatgaaaatc actagttcta atgagtccat taaaaaggca 360  
 ttgtatgtat ctacattang aataaccata aactg 395

<210> 15434  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15434

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 ctcatacctc caaaaaatcc tcttcggtta gattcggttaa ccattggatc gccttgaaac 180  
 ttttactgga ggttcctaatt acagaaatct aaattttgac cgttgggatc tgctagagaa 240  
 tgcttagaac acgagatgta ctacctttcc cgtgactagc actgcactaa ccattttctg 300  
 cataattggc aaaatttgct gcacaatttg acagcttttg ctgcataatt tggcagattt 360  
 cgaattctag c 371

<210> 15435  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15435

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 aatcccacaa agtttccatg agtttatttc ttcttttcta ttttgagtgt gaccaagtga 120  
 gctcacaatg gtaagggtang agcgttgctt gttttgatgg aatgtatttg gtaattaatg 180  
 tgggaataata gaagttaata atatgcatgg tcatgttgcc acttgcatg ttgagttggc 240  
 aagtttcata tgaggtccac cgctggtaga attgttgaaa tttggcccca attaacactc 300



gtggtgatac ttataaattg ttaccggttg aattgatagg tggctcaccg ttcatagatt 360  
aatagaggct tctcacatga cttctgngat agccatcaag tgatg 405

<210> 15436  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15436

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caagagagga agaaaattaa ctatctcccc tctctagggc caccattaat atggcccctc 120  
aagtgggtaa actcactcct catacacaca aattcatcaa catcatcacc ataaacacaa 180  
tcgaattatg aacattaatt ngctataatg tcaaaggctg gataccctca tacctaaaac 240  
caaagtgcga attataactc aacatcatat aatagaagca atctcatcat agaagcaatc 300  
tcatcataga agcaatctca ttatagaaac aagagtaa at tacacatacc tcccct 356

<210> 15437  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15437

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gttttttttg gagaggctgt gtgggacaac attcatgcta ttaaggccat cttgaagagga 120  
tttgaattag cttctgggtt gaagattaat tntgccaaaa gccaatgttg ggttattggt 180  
gatggtgtta attgggcat ggaagcagct aataacctga actgtcngta gctggaatgt 240  
cctttccttt acttangcat acctattang gctaaccct ctagccagct ggtgtgggag 300  
cctatcatca ct 312

<210> 15438  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15438

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tattaggcag aggcaattct caggggaacat caagctcact ttcggataag gttcatcaag 120  
ttgaatggaa atcttttagc accctcatct tgttcttggga cttaaacctc atgcagaggg 180  
ataagggtat accattataa tgattgcata gttggtcata taggggtaat tgaaagtata 240  
taatttctct atttttttca cgacagattt gtttaataat tataaatgga ttcatagttc 300  
cttcttgact ntcagcttct acagtgcatt catatcaagt gataacattc tcttttatga 360  
taataacatg actcctactt ggaata 386

<210> 15439  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15439

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tcaaggtttg agaagtgaaa atgagaatgg tgtaaatttg gagcanactc tcacctcaca 120  
caagtctata acattaatct aaacttgctc aaactggtn tacgcctaatt attccactga 180  
atcaaaatct gactcatcaa caccatnt taccctagaa atggctcttg tttcactctg 240  
gtcactcata ttctcatctt gcacagtcta agctttctct taagtcttaa aagacatttc 300  
aaactatgat taactcactt taacccccaa ttaccactga atccagattt agccttccaa 360  
ctctcaaagc ctactcttt gttgcactca taacaccaca ttctcac 407

<210> 15440  
<211> 373  
<212> DNA  
<213> Glycine max  
<400> 15440

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actgttcttc cttcccgga tgcttctttt catgtccgac tgagtgggct tatagcctaa 120  
tccatacttc ccacgatttc cttgggttat tatcaageta gttatgccgc cattgtcttt 180  
gcctaaacct attccgggtt cataaccgtt cccaacata actcgggtcca tcattaccgg 240

cgcatcggac agacaagggt gcccaaagag ggagtcacg atgaaatgct gaccacctca 300  
 taagactgga cagcgggttc taacgattct tctgcggtt ccacataagg catggaggat 360  
 gggcagctta cca 373

<210> 15441  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15441

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 gtcagcagag gagcacaac cacaaccct tgcaacagggt acaaatttct gattcaaggc 120  
 cagctgggtt accaagttaa ccaatgcac cagtttgct tcaagcttct tagtttcaga 180  
 tgatgcagat gggttttag ctacctcatg cactcctcta atgactatgg catcatttct 240  
 ggcgctaaac tgctaggagt tggaagccat cttctctatt aaatntctgg cttcagcagg 300  
 agtcatgtct ccaagggtc catcactggt agaatctatc atacttctct ccatattact 360  
 gagtccttca t 371

<210> 15442  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15442

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 aacgcttccc agccttcatt aaccgttga tcttctcgaa atttggttta caacttcaca 120  
 agacacttgt ccatgatctg accgttggga tcttcaagaa gatgtctgga gtgtgggcta 180  
 agcttccgtt cctggagcat ttcttattta agcatttcgg ccattgcttt cgtgtatctt 240  
 aagaanaacg tcatttcttc tcctttcttt cttccaaagt catttctaac atcccaatca 300  
 ctgtctccat ctcccacagc caccattagc caccacaaac ca 342

<210> 15443  
 <211> 348  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15443

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aagattttat gtttgaggat agatgaatag tgctaggcaa tcaattcatg ggactccgaa 120  
taagatttga ggggtggacga taaacgaaca acgctaggca accaattcgt ggtgctccat 180  
actcaatggg ggaggacgca tgaacaaaac tagggaataa attgatgggt ctccgaataa 240  
gatntgaggg tggaggatag acgaacaact ctaggcaatc aatccatggg gttctagact 300  
cgatgggtgga gaacgcatga acagcgctag gcaatcaagt catgggtc 348

<210> 15444

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15444

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ggctgtctga aatttctgtt ttgctgagtg aggagagaga aaagctttct ggtcttaaat 120  
aaaaggtttt cctctttttc tattatttta ttctagctct gccacatgtc cctatttgat 180  
tggagaaaaa aataaagggc ccactntctc tttttgactg tgaccatac tcagtcacaa 240  
aagtgaagaa aatntgacct ttgaaacgct aaaatcctgc ctcggtttgc gtgccgtttc 300  
tctgattcca gattctcgcg tttctctgcg tcccgccggg ccagttttcg aaagcaagca 360  
atatatatat c 371

<210> 15445

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15445

agcttgggcg catgcaattc aaagaggcat acaaatgga ttatcaagag tatcagaggt 60  
catcacactt gtctcgtgcc gatgcttaga caagatcatc gccaaactga caaacacgtc 120  
atagcacaga tcatccaacc aattgtcaaa acaaacccaa ctgtctccat caagacattg 180

attgcagaga tcaaacggtt catgaattat accctatcct acaagaagac atgggttagca 240  
aagcaaaaaa cattggagat gattcatgga aactgggaag aatcatatgc caaactgcca 300  
aaacttttcg gagctttgca atcttgtgtt cccgggactg tggtcgctgc tcanacagaa 360  
tccttgtatg 370

<210> 15446  
<211> 418  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15446

ctgaagaaag gttatgaacc ttacgagcat tcaactcanat tctctatgca caaacatatc 60  
cgtaaattct tgtaaagttt agaaaaaatc tcacaacaca ttgattatct tgagagaata 120  
ggctaagtgt tgggattaat attgtatatt cgtttgtaag acgctcatgg agttagtcat 180  
tgtgcaagca caaacaacan atctttctta tttgtataga gtcaatagtg acttagtaga 240  
acaaagaata ctaggttgat tcaagcttgc agtatagctt gatttgtcag agcaacacat 300  
gttagagata atggcacgtg gaactataaa ccaagaagga tgaattgttc caaattgctt 360  
tagaaccaaa tgaaaatttt agaagatagc ttcattaatc caatgattta agagtatt 418

<210> 15447  
<211> 371  
<212> DNA  
<213> Glycine max  
<400> 15447

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atctcgatta caatgcaccc aagagaccat atatctaacy ctggttcaat ctgaccaacy 120  
atcgattctg gcgacatgta aaaaggtgtc cctctaaact tgaccttccc atactcagca 180  
tttgcattct ctctagtctt ggacaaccca aaatcagcaa tcttcagttg ataccttgca 240  
tgatcatcag atgaaggaaa gagaaggatg ttgtccggtt tgagatcaca atggacgact 300  
ccttttcgat gaatgcaaga aagccctttg agaagcatac gagtgtagac tcttacttca 360  
ctatccgata t 371

<210> 15448  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15448

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 gatcttagtc tttntgtaaa aagattcaac gaatttttaa gaaacaaagg aaatcaaaga 120  
 aggtcaaatt tcaaatcaaa gaanagggca gaagattcgt cctctattcc aaaatgttat 180  
 gaatgcaatc aaccaggaca tctgaggggtt gattgcccaa ttttcaagaa aatgatagaa 240  
 agatctgaan agaaaacttc taatgataag aaagccaaga aggcctacat tccttgggat 300  
 gacaatgata tggactcatc tgaagattag aanatgaagt tgtgaactaa gtctgatgcc 360  
 caaggattat gaaagcaatg aanaggtaac atcttctgac aacacttatg tatttca 417

<210> 15449  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15449

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 ttttagtagta agaatatattg cttattagtc tggagatgga tcatggtaca ctaacatgct 120  
 tttatttagt acctttctgc acataaaaag tgcccaattt tgtatgcttt gtcctggagt 180  
 gacgaacaag attgtgcgag agactgtact aaggttgtca cagtagatct ttggagtcnt 240  
 gaaaaactca gaagagattg aatccatattg atttcagctt cagtactcag cctcagtgct 300  
 ggactgngcc actaaattct gtttcctggg ccaccacaaa attaaattgg ggtcaagata 360  
 tatacaagca cctaaagtgg acatcttattc attcatctat atatgaagcc tagttntcat 420  
 cacag 425

<210> 15450  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15450

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gcaaaggaac ttgcgaaccc caccactcca aacacaatct ccacaccatt gctgataact 120
catactacaa gaaaatatga tttgtagatt ctccacacca ttgctgaaaa ctcacactac 180
atagagtttc cgaggctgga ataacattcc tacgagccan attctattta gaggggaatgt 240
gatcctaaag cgctntccat gcaaagcctt gaatctttta agcatcttct tcacctttca 300
atcctcccca ca 312
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<210> 15451  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15451

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gaggagaata attntagggt tttgcaattc cagtttttat tactgttcat gcacactgtt 120
cacgtagaat aaaattcggt ttctgcaatt gcgtttctgc ttcaatctac aatttcattt 180
tctactgatt aatggaaggc taagtctcca gcattttttt ctcttaagga tcaagcacag 240
ctctctttga ggttttgtta ttactattga attttgatca gtttctcctt ttcaccaatt 300
actctgtatt tgttgcattt aatccatgca tgcttagtgc ttgattaatt gtctctgcgc 360
ttaatttatg ttcattgctta atgatcagtt tcgttcatga ttaattggtg tatgtg 416
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<210> 15452  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15452

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cattaccaca tagtctatcg ggaagataaa atgtttcact ctaaccagca catcttcaat 120
tactccatat ggtctggtta tggagcggtc agcaagttgt aaagtcattt tagtgggcat 180
gatctccaac tctcccaacc ttntgcacat ggagagtggc attaaattaa tactggctcc 240
```

cagggtcaata agagcctttc acacagtgcac ttctccaatt gaacaaggaa tagttacact 300  
cccaggggtct tgatgcttgn gtggaaggat cttttgaatc acaacactac aatttccttc 360  
cactatgata ttttcctggg gaatatactt atgtttcctt gttaacatat ccttcaagaa 420  
cttggagtag agtggcatct gctgtaaagc ttctcc 456

<210> 15453  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 15453

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aaagctcaaa agtcaataac acttcatgat aacaaagata atgatctcaa gaatcaaaga 120  
atgagttcaa gattgaatca agtacacttc aaggatcaag aggaaagttg aattcaagaa 180  
tcaagaatta agatcaagat tcaagactca agattcaaga atcaagagaa gacttaatca 240  
agatgagtat taaaaagttg tttcaaaaac tgagtagcac atggaatttt ctcaaaacct 300  
tttaccaaag agtttttact ctctggtaat cgattaccag attattgtaa tcgattacca 360  
gtagcaaaat gtattaaaa 379

<210> 15454  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15454

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gttttccagg agagaagact ttgagaagcc cttgaaccag gcttggtgca aagtccttgt 120  
acctttgatg aagcaaagaa cagatctttc caaaaagaag caaatgattt aaggtaacat 180  
catataaaat atagaaacag cttcaaatgt gtagaaacca gggggactgc aaagcccata 240  
cctgaactgc agcttgata tcagaacttc taagcttggc atcacatata gcagccacag 300  
cttcactgac aaatntgctt aagttgacac ttcgcaactc gtccatcaga gcttcacgct 360  
gctcttcatt aatctgcttc agtttcttaa taacagcagt ggtgcgctta atgctagaat 420



ccaatgtccc ttaaa

435

<210> 15455  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15455

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acaatagcat catttcttgc actgaattgt tgggagttgg aagtcattctt ctcaatcaaa 120  
ttcctagcct cagcaggggt catatcacca agagctccac cactggcagc atcaatcata 180  
ctcctctcta tgttgctaag tccctcatag aaatattgaa gaaagagttg ctcagaaatc 240  
tgggtggtgag gacagcttgc acacaatttc ttgaatgttt cccagtactt atacaagctt 300  
tctctaataa gtt 313

<210> 15456  
<211> 200  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15456

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agtgccctccc tcgcccagtg ttatgatcag ccgatgaggt gcttcattctt tgnnggacttg 120  
cagctatcac cagtgggtgga agaanttgc gagatccctag gatgtcctct anggggaatg 180  
aaaccatacc tcttctcagg 200

<210> 15457  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15457

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ttcgccaact tcagtctttt aagggaattt tntatcctaa aggcttgctt agcgccattt 120  
tctcgctaag cagcagttag tggattttcg cttagcgagc tagatgcgct gagcgtgaga 180

agagacaaat gactcgctga gcaagctgat ggcgcactgt gcgcatgcat gaatggaaga 240  
 ttctcttcta gattcttgca actcgctaag cgaactgagt gcttcgctta gcanatggta 300  
 ctcgctaaac gcatatgcct cgcttacaag acaccaactg cttcaacctt ctcttcttct 360  
 catgctttgg cctatactga gt 382

<210> 15458  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15458

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 aaaaatgaaa ttnttttcgc aagttgtttt tctcanaaca tatatgcaaa aaccaagtta 120  
 ctgatagtat ctccaatgat taaaaccagt tttgatggga aaaaaaacat ttatgtccag 180  
 tgaatgataa aacaaatfff ttaaaaaggt ttttcaaac aacacttatg tgaaaaagt 240  
 tgtcatgata agtttaagaa agtactaatc aaatagctaa agagataagt ggaaacgatt 300  
 agttttact ggttcgctta aacatagcta cgtctagttc tccttgacan accagtgaag 360  
 agtccactaa tcgaagcttg gttacaaaca agaatttgac tgctgtcttg ctacaa 416

<210> 15459  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15459

agcttcgggt gttcaatttc gagcgtctcg atatattatg tgccctgaatc ggacatccaa 60  
 gtgaaaagtt atgatcattt gaatatctca agagcttcca ttgttgaatt tcgaacgtct 120  
 cgatatatta tgcgcctgaa tcggacatcc gagtgaaaag ttatgaccat ttgaattgct 180  
 gaagatcttt cattgttcaa tttcgaacgt ctcgaaatat tatgcgcctg aatcggacat 240  
 ccgaagttaa agtatgacca tntgaattgt cgacagctt 279

<210> 15460  
 <211> 400

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15460  
  
 ntcgagaaat tcanatgggc ataacttttc acacggaggt ctgattcagg cacataatat 60  
 attgagacgc tcgaaattga acaacggaag ctctcgagaa attcgaaagg tcataacttt 120  
 taactcggat gtctgattca agcgcataat atatcgacac gttcgaaatt gaacaatgga 180  
 agctcttgag aaattcaaat ggtcataact tttcactcgg aggtcccatt cagggtgcatc 240  
 atatatcgag atgctcgaaa atgaacaatg gatgctgtcg agaaattcaa atgatcataa 300  
 nctttcactt cgagggtccga ttcagggtca tcatatatcg agacgctcga aattgaacac 360  
 cgaagggtgt cgagaaattc aaaagggtcat aacttttaac 400

<210> 15461  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15461  
  
 agcttgacag tattacaaat ctcaatatac gttgccaagt gtgagtatgg atcttcattt 60  
 ggtaaaccat caaacaact gctctgtatt agctgtatca atgaagggtgg gtaagttaag 120  
 ttttgtgcct gaacctatgg ccgcacaaca cttgagatat attgcggcac cgaagtactt 180  
 gagtaatctt ccaagggtcac tcattgaggt tgctcttcag ccatgacttc gacttcaaatt 240  
 tcttctgttt gagattccct ggatgtangt gaattagaag atgatgactc agaaaagtga 300  
 tcctcttcaa ggattgatng ctattgtctg tcg 333

<210> 15462  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15462  
  
 tacacaaata ttcattaatc caacacacac tcaacanata atcatcattt gtccatagtt 60  
 cctatcaatc atgctcagta tgatgcatgc acctgacctc aactctcana tggaaatgtg 120

gtaccatccc taaggaaata gcctaagggg gccacacga cactctcact tatgaaaact 180  
 aggcagtaag tgttgaggtc accctgtcat gcacagtcaa cccccccctc ccnccacagt 240  
 gatcagtctg agtctcaagg gagttccaaa ccgagtgaca tgcccccaag tacaagtatt 300  
 tntcctcatg aaaaactacg agtacttact aacaaagttt gtactatntt catgcaatat 360  
 gaagtatgaa acatnggcac catcaatgca ctgaccgtgg ataattaaat attc 414

<210> 15463  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15463

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 agcagggtgc agcaccagct ccgctttcct aaccgtactg gaggcgggtg ccgtggcttt 120  
 gtcctctatg gttttttgga gttttaacat gacctccgag atggaagcca tttgatcttt 180  
 taaggccgat agatcggcct tcatctgttc ctgcacgccc tcttcattat ccatttttct 240  
 ggatcgagnt gtataggggt gccttggtgt nttcttagtt atgatgaata tcctcaagaa 300  
 atacaaaagg tgagtgtcat accctaattt cgt 333

<210> 15464  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15464

ngaagtcaga tagcccttac cactccttat gtatagtctg tcgccaatca tctagctgtg 60  
 tgaataacct cggcattcga cagattttgc tggaaaatat atgtgttcct cctccaccaa 120  
 gtaagtgatt ccaagggtgac tcatatacga catgctcgca agatagattg gccttcaacc 180  
 aactctttca atcaccacaa gaataaaaaat cactaccatg attgattcaa atgaagaatt 240  
 gtcaaattaa ttgcacatat acacaatatc taaacatatg aaaatgagat tcctcatgat 300  
 cttcacagat actacacata ctgcttctag agaaacctat cctcctcctc ttgcattca 360  
 tcaaccttga ttcattgaaa tc 382

<210> 15465  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 15465

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agcttctagt ctcaattttg agcgtctcga tatattaccc gattcaatcg gacatccgag 60
taaaaagtta ttgtcttttg aatttcctac aagcttccgt tttcaatttg caacgtctcg 120
aatatattac aggactcaac ttgacatccg tgtataaagt tattgtcaat tcaattttct 180
cagaacttcg gatctaaatt ttgagcgttt cgatatatta caggactcaa tcggacatcc 240
gagtgaaaag ttattgacac ttgaatttga tacgagcttc cagtttcaat ttggagcatc 300
tctcgataaa ttacgacact ctgtcaggca tccgagtaaa a 341
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<210> 15466  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15466

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tctagccaaa tggacttacc ttgaattaat tcctttgata ttcccttttga gccttgtttc 60
cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtgaggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ntttgggcca tacttgatgt 240
acattgtata ttgggttaa gttggacatg ctgaatgaaa tgttggtttct canaggctaa 300
agagtctaan aaaaaaaaa agaaaaagaa aaagcataaa gttgagtga taagatctta 360
aatggcacaa gaatgatgaa actctggggn tctactctca tgttaaattn ntaatcttac 420
tttcttttaa tttttttta 439
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<210> 15467  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15467

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 ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttatct 120  
 ttcctctcaa ttttatcttt gactctctca tgaagcgtct tcacatagtc cgcctttgct 180  
 tgaccttctt tatgcttaaa aatagaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttat aaccataaac aacttcanaa ggagaacaat tagtggtgct atgaacagct 300  
 ctattgtaag ccaattcaac at 322

<210> 15468  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15468

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgaggtcc ttcaatggtg 60  
 atttttcacc atggagatgc agcgggaaggc aaaggagacg aggagagggg aggcaccatc 120  
 cactanggaa taagccaagg aagaaagagc ttcaccacca agaattgcct tggataagaa 180  
 gcttgaagag gatgctctaa tggaggataa gaaagagaga angtgggagc acgaaattga 240  
 aggaataaaa gagggagaga agtgggaactt tgaagtgtat ctcataagac tttcattcat 300  
 canagttaca acaagtgtta cacatgcttc tatttat 337

<210> 15469  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15469

agcttgttca caaaaaatag ggttntgaaa gtttatcatt tcagtttctt accaagtaaa 60  
 atggatcatt ttttaagggtcc aacgacttaa aatgatcacc tttcaagtaa aaagaatcac 120  
 ttgattcacg cataagatag aactacatag gtctgatttc ctctttgatg gagggtagct 180  
 aagagcaaaa gccccgcttt tgtcgacctc aaaaaataaa aagaaataaa gttaaggtaa 240  
 cacaatttcc acaattctaa aaaataggct gttgtccttc aagacaaacg taagagggtgc 300  
 taataccttc ctcaaccgta tatacaactc gcgaacttag aaatttcatt tttgatcg 358

<210> 15470  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15470  
  
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 cggtccttct ccttcttgga aggtaccata ggatattgga ctttcgaacc ttcattcaca 120  
 gctgtttctc ttttattctc tctagcttgt tcaactctac tctctctctc attcttattt 180  
 ttttcatctt tttcaattgt ttcattttct ttttctttat ctaattcttt ctattnttct 240  
 tggtcattta attctttttt cttgaccatt atttgntgta tcttttctta atttctttca 300  
 cttctcatat catctttctt ttcacagta ccctttcttt tcaatagact ttcttcttgg 360  
 atctaact attctcatcc tcttgctcca caaacctctt actncttgtc atcac 415

<210> 15471  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15471  
  
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 cttcggcaaa accttcactt aacccttcac aaagacatct tttccccagg aatcacttaa 120  
 actcgtcct gtgacttgct ctccaccgtt taatctaccg aaagcatttg ggaagaccct 180  
 ccatgagagc ctccgagtcg ccccatctta tgcgattgga ctgtggctct tgattgcaca 240  
 attacgtgga ccttaaagat tataatctct tctcgtgtc accccaagca cttgccttat 300  
 ggggaccccg gcatcatcaa atgtgtgctt caacttagtc aaactatcat gtggtgctac 360  
 atcaggaaca acaatttaac cattcctgca tttgagatca cgtaan 406

<210> 15472  
 <211> 81  
 <212> DNA  
 <213> Glycine max  
  
 <400> 15472

ttggcccctg cgggtcttag caccgagctg agcttgaatg attatcaacg tagcgttgat 60  
 ttttacaact ccccatttta g 81

<210> 15473  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 15473

gagaaatgcc caagagaaac gtccgattga tttttttggt ttattttact aaaagatatt 60  
 tttttattat tatattatta ttttacctct tttttgggtt ccaacgtggt tacggcatga 120  
 ccgaaccgtc ggatttcatt ttaacagaaa ttaacggata ttacaattca aatgatcgggt 180  
 ggaaatttat tttatttttt gattaggcga gaaaatgact taagtaaag actaaagcac 240  
 gtcaaaagg gatacggaaa gtaaataaaa tgaaaataca agtacgtgag acaagcgggg 300  
 accaccaagg tacatagaat gaattgaaaa agctcgattt c 341

<210> 15474  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 15474

accctcttta atctgtatca tgagatcaaa atcgcatttt taaaaatata tacttaaatgt 60  
 ctttgctgat aaggggctgt tcataaccca acttctctcg aacactgatc tcctttattt 120  
 taacgcccgc cacaacatg aaaaactggt atgaaactaa ccatcatttc cagaaaaaac 180  
 tatacttatt catttagtta tacacacaag gttaagaact ggtctaagg gaggttactg 240  
 aaaaaacgta aattttcttt ccctactaat ga 272

<210> 15475  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 15475

agatgaacca ctggttgatt atatagcata tgatgaagga cattatagtc ctttcatgta 60  
 agttgctggg tgtcctaaac aatttcctaaa aattgatgta tataaactag gaggtccaat 120



aaagatttca tttttttaa tgaataaat tttaaaaaat ttcacattga tcaaacctc 180  
 tgttgctttt ttttttacca gttggcacga agttcattcg aaagcgggtga ctaatttctc 240  
 gttaatgatt cgtgaatata tgatgggttag attaaaaaat atttatctaa ccgtaataat 300  
 aaaattg 307

<210> 15476  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15476

anaacgagaa gtaatgcgaa gactaatggg cccgactatc tatatcctat ctcggaagtg 60  
 gaactactag cccaccgcct acgaaggatg tggaggccta actggcaact aacacatcgt 120  
 gactgggtga ctgacaccaa gacaaacaca tatggcagaa caaacacccc ccgtcatgga 180  
 ccacctggct aatgaccacc gagactgacc aaaaagtcaa acccactcgc actcgaagtg 240  
 agaacgcacc caccactgca gataaagcca aatcgacaaa ggcacatatg gaccaaaca 300  
 cgctcgtcga accgcaaagg aagcaatccc agctccacgc aacaaaagag ggtcgggaca 360  
 caacatgaaa cggggaacct gactagttac accaccagaa aaaaaataaa tggaaaccgg 420  
 aacaccgaac ctcgagcggc caacaaccca aagggaacaa acg 463

<210> 15477  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15477

cacaaacaac acataagccg taaaccagtt tcatgacaat ttaaaaacaa caaaaatata 60  
 cttaaaaaaa ataaaaaagc caaaagaaag gtggcagatg ttcaatcaat ggcgttaaat 120  
 gatccccct gctgatttca acaaacagca gtcaagtcaa ctctgataag aaaagtggaa 180  
 cagagattta agagaaagag accatactac caccaaataa aaaattggaa cttttttttt 240  
 catgtaacat ctcttcatat atttttctaa ttggtatact ttantttact gtgcaatttt 300  
 ttttttatca aaatccct 318

<210> 15478  
 <211> 587  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15478  
  
 cgcacacaca caaagtcacg tcgtccagcc accccacacc cgcgacacca aacgcaaaat 60  
 agaacntaca anagtannnn tntnnntntg gagcacataa ggaacncagc cngnccccng 120  
 aactctaaag cgacatgcag cagccagcta aacagacagc gtgtggaagg aacaaggcca 180  
 gtattatggt gtaaccaaca caagccgcac aaccaaggga gaaaggagac acccccactc 240  
 attaccgagg caaacccaat agcagatcaa ccagatccgg tacaagcgac agagctaaag 300  
 aagcacggca aaagccaacg aaaaaggagc caacggaaac ccccaaaaca aatgcacagg 360  
 cgaacggggc cgcactaatc aatacacgat catagaacag caagataaac caaaggaccg 420  
 gacgaacatc ggcgaaagca ccccaaaact aacaaagaac caacacaaac aaaaccacc 480  
 cacgaaccaa aggcggatag agagaaacaa aacatctacc gaaggagaga aagaacaaca 540  
 tcgagcccac aggcaatcag gggaagaaac aggccaacac aaaaacc 587  
  
 <210> 15479  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <400> 15479  
  
 ctgtagaatc tagaattgtc tatttgctat gcagatcgat agtattgcat ttattagtgg 60  
 gaatttgatt cttttgacca taaaaatctt ccacagtaag taaaatatgc acggatcatg 120  
 tgcaagatca ttttcaatac aaataggaaa ttggagaggt ggaattgggtc tatatagcta 180  
 tagcattcaa tccagtgtc aaagtcactt tcaaaatgta tgtcagattc taattctaaa 240  
 gtttctgatt tacagttgga atgccaccta tgaaagtcta atggggacca acagcccttt 300  
 cacctgccaa ttctcttgg agtaagtcct gcattcattg gattgtcacc tctcatatac 360  
 acaaggttcg catctatata tctctttaat tattgtcata aagccccact catttaattg 420  
 ctatcaa 427

<210> 15480  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15480

ataaaatata cgctctatatt ttttttacgc tcgagagata gtgagtggtga ctacacacct 60  
 agaatacagg actcttcttg agctgcatgt gccattgat atgtgacttt tctaattggcc 120  
 ctactcatct cttatctgat tctttttttc actctatagc tgatttttct gacctattcg 180  
 tttttacagc aactcagctc tcaaatttaa cttaccacag gggttatatt ggtgggtaat 240  
 gactatatat tcactctttt gc 262

<210> 15481  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15481

acttggaacc catttctacc aactacaaac cctaagaaaa ctatattatc tacacaaaag 60  
 gtacacttct ctatatttgc atagaggggtg tttttcctaa ctactgaaag aactagcttg 120  
 agatgtccta aatgatcatc taagctccta ctgtatacta aaatatcatc aaaataaaca 180  
 actaccaatc tacctatgaa atcccttaag acattatgca taagcctcat aaaagtgctt 240  
 ggtgcattag tgagcccana aagcatcact agccattcat acaaaccaaa cttgggtcttg 300  
 aaagcggatn tccactcatc accctttttc a 331

<210> 15482  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 15482

gcaccactgc cggatcttac ctggctcact gtacgttgca acgacacttt ttttgccatc 60  
 aaaatagcta ccgcaactaa tccgtaaact catgttcgaa aagcaagagg gacacttccc 120  
 aagacctgga gtcgtgtctc ttacgataac tcccttgaca gcaggtgcaa ccctccccaa 180  
 atttggttcg ttgacttata ctaggcctat aaatgtgaac ttt 223

<210> 15483  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15483

gccacctgaa cctnatgaga cctgcatacg gccatgatac cacttgtcta attacattgt 60  
 gttgtattta tggaggaggt tgtatgtcat tcttgtttta ataatatagt ccactggta 120  
 aaactaactt tccaaatggt tgcccttcaca tgaaatggcc ccgatgaagc ttgccttaaa 180  
 gatgtccaag aaagacaacg cagccgaaag aactacttcc gctccggagt atgatagtca 240  
 ccgctttaga gtgctgtacc ccagcaccgc ttcaaggcca tcaatggatg gacgattcta 300  
 cgggagcgac tcgttcagct tatggaccac gaatatactg atttccagga tgatataagg 360  
 cgccagctgt gggcatcact tgatactccc atggccaagt ttgatccaat aaatatccct 420  
 tgagttctat accaatgctt tggccaccag aggaccggcg tgcgtgacat gagactcttg 480  
 gatacggggc g 491

<210> 15484  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15484

atgcacacta tcatgtagng cgaccttcag ctcgtactcc gggatcctct nagtcacctg 60  
 cggctgcagc ttgtgcacaa gaaaatggga caccattctt tattctcttc tctaaccaag 120  
 ccatacata atggcttatg ggaactccct tcaccgaatg gatgactgag aatttggact 180  
 tccttgagaa aagcttgctc catgaaatcc aactgcgaca accaagcctc aaagaaatgc 240  
 tagttatacc gtatagangg tgaagactta tttcaagacg cctttcaaca cccttattga 300  
 attcctatct aaaacgatct gaatatgtgt atcagatatg ctataggata tgtgaatgac 360  
 tcacggtggc gtcctaacac ccaatgctca ggtggaacta ttgccgatat agaaaaattg 420  
 tcaaattgaa aagtgtgaga atgcctatct cgacgccttc acttgcctcc gaaattctct 480  
 catattcccc g 491

<210> 15485  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15485

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 aacaaagggc ggcgtggatt aagatactcg aactttctccc ctaataaaaac aacaatcaaa 120  
 attcgaccca actaatgaaa ttcttttaac tgccaacgta tcgcaaataca tatattcana 180  
 ttggaaacaa ctctgtatat tgcaaactac agccactcat tcaactacac gagaattaaa 240  
 gtgaacaaat acaggacaca ccgctatcat tctggatcgg agcacacctt gtgcctacgt 300  
 ccagtcccct agccactccg cttggaaaagt accacaacca tggaactgct ttctcacagg 360  
 tgtaaacacc caaacgacaa cccattcttt ctgtgtttcc aatatgcatt aacacgagat 420  
 gactcacact ctactatctg cttcaagaga atgagaacat aataacagac ataactctcc 480  
 g 481

<210> 15486  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15486

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 catgcaagct atcatganaa gatcatctac ccctatgatt gttgttatcg ctctaacnca 120  
 ttctgaaatg attagtata aaaagttgcc aacttngctc ctgtctaata gatcccttta 180  
 cattgggaat tggaggctct catgggcaag ggtcaaagac taataagatg aagcaagcat 240  
 tgcatagcct aattctaaag atcaaagaaa taagaagacc caatgtgaac ctaacggttg 300  
 caaccantt gggtcacttt cttactaatc gatgaagatg ctttgatgcc aacttgaaga 360  
 atcacttctg gaagccatt tataaaaaac aaccttcatg ggtagtcga caattttggt 420  
 gactactaaa ttgggtgatc aatataacta gtcaattcct gcacctattt gaatttctac 480  
 attcttttgc tgaattctgg gaattgattt tctaccaccc at 522

<210> 15487  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15487

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 tagaagtttag tgaaacttag tgggtttgtca ataactgaac atagtctcgg tggttgagac 120  
 gaactagtagt aaatttcttg tgtcctatatt tctcctttttt tattttaaact gacttacagt 180  
 tagaatttga cctttacttt agaaaaatta tgttttggttt acaaagatct gaacctatcg 240  
 tctgatctat cccacaaaaa tctgatattt gtttcttaag ttctacttca tcaaagtatg 300  
 tttttgttgt atttcaagaa gattttaagt ttagtaaaaa tcacaattca cctcattctt 360  
 gtgatataata tatatatata tatatatata tatatatata tataatctcta ta 412

<210> 15488  
 <211> 134  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15488

cactcactcg taccggatct taagtcactg cggctgcagc ttcattcacat tgatgaacgt 60  
 gattgtatgc ttgtcagtn gagacaacgt aaatttctgc gcttctctat ctctgactgg 120  
 catacgtctg ctga 134

<210> 15489  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15489

ccatgctagc ataagtgaga caaaagctgg tgcaaatcat aactctgata tctcatgggt 60  
 cgaatggatg aatgcatgaa ggaatgcata taacacagat gcaatctagg aatgcaggag 120  
 tccagcgaat tcgtccctt cttagacaca acgtctaagg gtagcaaagt gccgcacgta 180

cgtnntaaga aagcacaccg accctccggt gggttggttac acaatggatc aagacagaac 240  
ccatatgcga tgcctatgca aaagacacaa tgcgagaatg tacacaatat gacaatatc 300  
acttgacata cacaaaaagg tatatgatac ttatg 335

<210> 15490  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15490

atttatattg ccttattgca aaatanatta tcataaatat catattgggc cctaaaaaaa 60  
gctatagccc ttaactaagt ntgattcgcc tcttattaag ggtaaagnct atctattntt 120  
atnccttttg tctcatgtat gaataacaat gattttatat tataatttaca taaagttggg 180  
ttctcattgg ccataaccgc ataactatta atgccaaata tactttttga actttatatg 240  
aataagtaat aactataatt aactaacttc aaagatgtat caattgggac tagtgccatg 300  
aatcaagaat cctttaactg gttgcagggt aggctttaac caaccaaagc cggaggctaa 360  
caacaatgag tgaatgttg 379

<210> 15491  
<211> 444  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15491

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ccttaccagc ttagaattgg gaatccattc cattcctggg gtccggactc tcagccctta 120  
tgatagccgc gatgatccat tacttgtttc cctaagctct ctggnccttc ttaacgccc 180  
aatccatgcc ttgcgaactc tttgaatacc ttcgcgtggg cactaaaccg gtgcataaag 240  
gcgtgagctt tcgttaatgg cgctctctat ggggtaccaa ctgtctatgg caggatggga 300  
tatattatac accctttgtc catcanggac atttgacatc ctccatgaga tagatttgat 360  
ctttctctct acgaggacca ttacaacccc ccatgcacca gagtgggtcaa tcgcttcttt 420  
tcaccacaca gacctgtacg taac 444

<210> 15492  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15492  
  
 acttctgctt attgtgacca cattggtacc tggagatatg tcgcggtggt caggagacct 60  
 tggggacggt aggtgggggt ctattgccca aaaccaagct tgaccaatcc cgaccaacc 120  
 cgggcatagt cggtcagtga gaacctgtga tgtacctaaag cagacgagct cctggcagtc 180  
 nacagataaa aggaacaaaag accacaaaagc aaggaggcctt gtggtggctg gccagctgtg 240  
 aaacttgatt gatatgtgag atatggtctc tggtaatcga ttaccaagggt tgggtaatcg 300  
 attacaaggc ttaanaatga agacaggaga ctaagatggt ctcttgtaat cgattacca 359

<210> 15493  
 <211> 207  
 <212> DNA  
 <213> Glycine max  
  
 <400> 15493  
  
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 gcagcttggt gttacgtgaa catgaactac taccaatata tagatgttgt tataacaacga 120  
 cacatttaaa acttactcgc aaatgggggc tcttggaatg aagtgcattt tcttcttctg 180  
 atgacgcatg gacacttatt cctgacc 207

<210> 15494  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15494  
  
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 gacctagtag caactcatga gcaaaagcta gaggacaagt acaccaagggt ctgagtcttg 120  
 caagcaaaaa gggaagcaag ggaaagggtg atcgattcat tgcacagaga agcaatgatg 180  
 tggatggaca gattcgcat tactttgaat gggagtcaag atcttccttg actgctagcc 240



aaggccaaag cattggtaga tgtgtactcg gccccgagg aaatccacgg gtcctcaat 300  
tattgcgaac acatgatttg attaatggcc tacataatta ngagtcacta aggcaattgt 360  
attgtgcttt gactttggct agatacacc 389

<210> 15495  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15495

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ggagaaccct cttcttggtta tccctaggaa gggccccctc tccctctctt tgccttcttg 120  
ctctcatgtg aaacacattg aggactcttg agctcaagat caccctcata gaactctaca 180  
accagcttcc ttaagtggta tcagaacaca agagcctcag taagtgtcc ttaaacctnc 240  
aattatTTTT tgcctttacc tctcttccat tgggtgttctt cttttttct catgatctcc 300  
tacatgtctt gtctaaatgt tgttacatga ttcttagagt gtcaccgata acctgctata 360  
aactagatng aattttattg gtcaaattct tgtcttgtct tcaacatgat ntgggttaggt 420  
aagttcctta ggatttgctg gg 442

<210> 15496  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15496

catatgtgat aattgactat tntgacacac aaagaactcc taaagtgtcc agatgcaatc 60  
taatcgatta ccacatgtgg taatcgatta tctcaaacca caaagtcttc cttctgctaa 120  
aactagctta tgtaatttat tactaaaact gggaatcgaa taatccgatg attcttgcca 180  
catttcaagt tgaagtgagt tatgttgctt gttctaacac tttgtaattg attactaaac 240  
tttgtaattc gatacattgt gttgaactca ttgcttctaa gaaactttga gaccaattca 300  
ttaatctacc ttggttgctt tctactaagc atgaatataa gagaactaat taccatcat 360  
gcctagtcta naaacatcca atataaatgc cacatctttt aaatcttttt tggcattgta 420

aaatgattaa aa

432

<210> 15497  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15497

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ggcttttttt gcatggccta tccggagaat tctcagacac atctaggctc cctgaatgac 120  
agacaggatc ccattttgcc tctccaatag aaacttaaaa ttatttttga cttagggttc 180  
ttgggacaac atccgactct taaatcctta agacttactg cagacttaac tggcccaatg 240  
atagctatct gaaactttga cacctctcng atttgatgac aacttctaata gaatagtgca 300  
cattcctaag tcttcacagt gaggactgt ctatatgaat atagtgatgc taataaa 357

<210> 15498  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<400> 15498

cgcttgaacc cttcttagac gcatcgata acactcagct ttacagctga atcattcccc 60  
atttgacacc aggtgtgagc cagttctagg gtcctaaaag acagcctcac atgatcaaaa 120  
tgaaagatga cttatcccac aaagtccaaa caactggcga tctgcttgat tatagaaact 180  
gacttagtac caaaaaata ttttccttgg ctttcttgat caaatgcttg acgctggcag 240  
aagctcattc tattttcgag gctttatgta ttacaattct atgctttgag gacagaaaaa 300  
acatgtcact gcctttgcac tttgctattg aagaagcctt ggctatcatg cccttgacct 360  
tcgcggtatg ctacatttca tgattttaag actgctaata gttatggtga ttctgtg 417

<210> 15499  
<211> 410  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15499

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aacacataac ttagcgattt tattntccgt atatataaaa ctgaattag aacagagctg 120  
tagaaaatca atgacgatac ttttcacgat gtccatggat ccgtatatat gcgtgctcgt 180  
attgaaacaa atctttgaca atttaacaac atactatgac tgatgtgtga tgggccgata 240  
tcctcaagct caattcaaac aaagcttttc aaattcacga catacttttt cggtgggtcat 300  
ggtccttata tttagagcct caatgaacta accttacaat tcacgacaaa cttttatcgt 360  
tgtccatggc cccacattcg atcgctcgat taaaccgacc ttgtacaaat 410

<210> 15500  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15500

tgcattcgga atagcgaaag cccactcca tcattaggat tattacctga catctcaaac 60  
aaacaaatca aacgtaacta gacaattata gttgctgttt gaataacctca cccactcaag 120  
tgtatcacac aattatggct tttctctaata gaaacactct tgcccttttac cactctaatt 180  
ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240  
atgtgtaagg taaggctaga caaggaaaag gtttaaccaag aaaaaggcta acaattgttt 300  
taggcacaaa tgaaggaaat aaaattcaga atttatgaat tcaagtaaca atccttcattg 360  
caaccaatat attaccttaa agagtntttt tttttaagtt ctcc 404

<210> 15501  
<211> 120  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15501

agcactcagc cgaccgggat ccttaagcac cgcggctgca gcttgctcggc acgacgtcat 60  
gtgaaagagt gatttatattt gacatgccat tgnncaaaat cacctctggc cgagacacat 120

<210> 15502  
<211> 485  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15502

cgcccgctg acccccgatt gatgcctttg canaccncca ccttaganac tcagcctgcg 60  
atctagcaaa tattagatca gtggtnaaat gatagtatat ttccagcact tatggtcgga 120  
attggtggtc tttttaatta gaacacattt tatgcatatt ttgccatgcc atttaacttt 180  
taactggaga atatagaaaa tgcagtttcc ggcagaccat aaaatttcta tanaagtaac 240  
atgcatctaa taatntctag cacaatatga aagagtcacc acttaaaacc caaaccgagg 300  
gtcaagaata ctaaaataca gcatttacct tcattcaata gacagatgaa agtgcagatc 360  
cattagagag agcattggag aaaatattct ttttttaaaa aaaaaaatt tagactacac 420  
aacttaaaga aatagggcag ctaagatacc tcagacatga agcttgctca gtttaatgaa 480  
ctccg 485

<210> 15503

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15503

cttgagggtg gatgatagac gaacagcgt aggcatttta tcatgtgtct nncgaataga 60  
tttanggtnt gaggatagat gaatattgct anngcatcat tcatgtgact ccgataagat 120  
ttgaggtgac gataacgaac aacgctaggc aaccaattcg tggggcttca ttactcatgg 180  
gtgaggacgc attgacaaaa ctatgggaat aaattgatgg gtctccgact aagatttgag 240  
ggttgangat agacgaacaa ctttatgcc tcaattcatn gtgttctaga ctccatgggtg 300  
gagacgcatg tacagcgctt agcaatcaat tcttgggtct tccgaatatg attcgacggg 360  
ggaggatata ccaacaccgc taagcattca ttctgtgggc tccaacctga tgggtggagat 420  
tcttgaactg ccttngcatc atttctgggt cg 452

<210> 15504

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 15504

gtagaccccc ttggtttgat cacgctagct antaccngac acttagaata ctgagctttg 60  
gtggagctca tggagatgac atttacagaa tggtttctctg aggagagaga ggctgtctaa 120  
attcttgttt ctgatgagag aaaaatagct ttctgtccta aataaaaggg tttcctcttt 180  
tctattatatt aatctactct gcccatgtcc tattgattga aaaaaaatat aggcccactt 240  
tctttttttg actgtgaccc atcctcagtc acaaaagtga gaaaaattta cctttgaaac 300  
gctaaatcct gcctcggttg cgtgccgac tctgattcca gttctcgct tctctgcgtc 360  
gccggagcca tttttcgaaa gccagcatat atatatcaaa cnctcagaat aaaacccgag 420  
cgtggttcaa ggtttggttc gttaatttta agtccacgca aaccatgatt 470

<210> 15505  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15505

ngcccaaaga aaggagccac cgaagaaatg cntatcacct caaaagactg gacaacnggn 60  
tgcaaacgac agcggcgccg ctcccacaaa aagcatanag gatcggcagc ccactataag 120  
actccccgcc gagacaaaac cagatgcccc ccacaccaaa acaaccttcg gaggagcgga 180  
aagaacaaca ccaccgggga cccccggccc caacaacagc ggaaggaggg gaaaaccac 240  
atccgaaaag accgacagtg gaaggccact gacgggagaa caacacaccc taaccaccgg 300  
cgggagccgc gaagggccaa ccaccaatga ccatggtcta agcgagaggc ctcgaaggga 360  
actacaccaa aggcggcgag cgccccggtc aaccggaacc aaacccgaaa cacactgcgc 420  
accc 424

<210> 15506  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 15506

tcaccctgac tgtgaccctg atcggcccta aaccactggt cagccatctg ggggtaaccc 60

tcttctgcta atcctaagga tgggctccct tttctatctt gcttcgtgct cataaactca 120  
 caacaagctt catcaagtgg atatacccaa agctctatac ggctcttaac tactaagctt 180  
 gcttacctta cagtctggct aatgtgtaca gatcttaagg ccccaatacc tgttaaactg 240  
 atttgatgtt atgacaaatt ttgtcttgcc ttgaacatga attgtgtgag tatccgttcc 300  
 tctcagttac gtcttggtat tgtttgcggc tgaacctaca caataaaatc ttacacaatt 360  
 ataaagaata agaaaacttc atggattcct ttgctcg 397

<210> 15507  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15507

tgagtgagct aacttacatt tatttgcgta gcgctcactg gccagctttc cagctggaaa 60  
 acttgtcttg cagctgcatt aatgaatcgg ccaacgcaa cccctctgtn gtcgctcggg 120  
 ctttctacca attatcatgt ttaacagcgt atcgatcgag attttggcct ttcttccgct 180  
 tattatccat tattccaggc ttgcaactca gctgttaacg tgcccatanc tgtcttaaat 240  
 aattacgccc cctccgccc tttccagaac tgggggaata ttaacattct gcaacatgga 300  
 acccctcaac ggttatcg 318

<210> 15508  
 <211> 126  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15508

ccacagattc tgccttcttc tattttcaga gtgggggatgc ctctaacagc acctctgtca 60  
 atgattntct tcatgcctct taagtgcaga tgtccaaatc ttgatgccca tattctgact 120  
 tcattct 126

<210> 15509  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15509

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 gttataccct tatttcgtct ggggactatc atttgttaat cttttgattc ttgttagtcg 120  
 acttacagtg ttgaacgcca gttacggtgt gaaacagaaa atcattcagt gttttgatca 180  
 aaaatgcaaa aaataccaac aaagggaaaa atgggtctttt ccttggtttc cttgacccta 240  
 gctcgctcan gctagcctct agcttgcttg tgccaccgaa taacttcattg gtgaaaaaac 300  
 caactcgcca gggcgagctc attgcttcag cactaagtnt tagcttgctt gngcaagctg 360  
 caactgctcc aaagtgaccc tttgcttata aataggcggt ct 402

<210> 15510  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 15510  
 acatacttat tgtgacaatc tcagttgagt tatgaaactg ccctgagatt atgtgatatg 60  
 acctgaacgt taggtcagct ttctatggat ggattattgg cattgcgatg catgatataa 120  
 tagctatgag ggaggaattg tgttcattga ttgatattac ggctttgctc tcttg 175

<210> 15511  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15511

ccactggggg ttgtggttgt catctcaaca tggaactttc ctttctgtat gtagaagaat 60  
 gtcccttttc actctattta tataatctaaa ccgtatatgg ctataattga gaacagcttt 120  
 tcttcattctc agccaatttc atcactgtgg agctcttgta gtgagatgta tntgtcctgg 180  
 taataaaaact cttccgcact ctttaagttt tctttgtcaa aaatcaaatt ntaccaatta 240  
 tgtcaagctc gtaacttatt tgtgctctct gtctat 276

<210> 15512  
 <211> 505  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15512

aatatgtcga tccacctcta agggcacttc agctcgtaac cgggatcctc tgagtcacct 60  
gcagcatgca nngctanagt atgcccagagt cattcatccc tatgagaatg ttgtgaatat 120  
tggcgatcag aattgccatt ccttggatta taggggttga ccaagctcat gcctttacaa 180  
naaggttcat caagtccagt tgaaatatgg gaagttacca tctttgaaaa ttgggggcaa 240  
agatgaatcg agtcacatca ctgcttcgtc tactgcccac catattaaag attggtgatg 300  
tcctcgttac ttcccgttca cccttgacaa aaatgcattg accatgctgt aaatctaatt 360  
gattaacccc tatcctgcga aaaattccaa taottcactg acatattcga tacatcctgt 420  
tttcatgggt gatggtcatt gattcctcct tgaaaataaa taaataaata aaatgactta 480  
atattgttta ataaaaaaaa acccg 505

<210> 15513

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15513

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cngcgggagg tgatatggga aattgacatc cncattcaaa taggccccca cacttgcaat 120  
gtgagtttcc aagtgatgga cataaatccc gcctacagat ggtgggtccc tcgatgcttc 180  
accagaaaact gaaattcgca gttggtggac tcttggtgat agtgtcnggt gaagaagata 240  
tgttggtaag ctgccccttc tcgacaccat atgtagaggc agcggaggaa tcattggaaa 300  
caactttcca atctttcgag gtggtaagtt gtgcctccgt ggaaacaagc ccattgctac 360  
cttgtttctc taatgcagcc ctgatgggtg cgcgggtaat gc 402

<210> 15514

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15514



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 ggtaggaat ctggataagc ctacagtttc ttcttatatg actctcagng aagccaagat 120  
 actttaaaag atactcacgt tgagcctgga gatggttttc aaagaatact taggggggagc 180  
 ctatagaggc tttgagacta gtagttataa gagcctatgg gaagcttcag aaaatnacaa 240  
 taacatactt ggtgcttggtg taatggaatc tacagtgtgg gctatatata ctcagggtgg 300  
 ggtaaccata taattatgtg agtattttatt ctttttacca tttctgattg ttcgttttcta 360  
 ttttcgttac gaaacatatt ttccatacta ttatttgata tagttctaga agtttttctta 420  
 atgattttca agatataaac acgttttctt ttcaaaaaga aaacctaact tccttt 476

<210> 15515  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15515

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 taactttaga ccttacactg aaattgattc tcatatgtta aatgaaatgt ttctaccaat 120  
 acggaaaatt catgatgtca aacttctttt ttgatattca ttgtgtctta catcgtgatt 180  
 tgcacattac tgaaaattgc aaaaggaatc ggttgactat aaaagaatga gtatgttttca 240  
 aaatacaaag tagattaaat gaagaacaaa ctttgcttag atcacaacgg ttattttcaac 300  
 aatntctagt agatggttac attatgattg agtcagagag ggtgtctttt ataagatata 360  
 accaatctan actacgagtg gacaaatatg ctaattngga aaattcagaa tctaacaatg 420  
 aaaaccatgg ttctgata 438

<210> 15516  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15516

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 cttctaaatc catattatta tgaagtnttt ttgttaaadc tgactcttaa atntaaaatt 120

tattatgagc attatttcta tttaagagat gatttaatat aatttcgtat tacttgagga 180  
 cttattaata ttatatatat tcgataatca aagtttatta tatttatact tcctggatct 240  
 ggt 243

<210> 15517  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 15517

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 aataactagt tcggagggtg atcattttca tggagacctc atggattggc cagcttggat 120  
 atgaaaatgc aatccttctt gtgttgttct tcgctacttt tatttatatt ggtgaatgac 180  
 ttaaatttta cgtagtttat ctttacaag ttgtttatgc ttatatgtag gttttgagga 240  
 aatttgagtt attatggtgt agtgtgtgtg tgtctatata tatatatcat gtcctgtttt 300  
 aatttggagt tgggcatttt agcctttggg acttcgaaaa tgcaaaagtt ataagtattc 360  
 tataatcaat taattg 376

<210> 15518  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15518

attgccatat ggcactcact cgtccgggtc ttnagcaccg cgctccgcta attgaattca 60  
 tgaggaaaag gatttttagtg cttgaaattg aggagaatga gagagttact ttgagtgtgc 120  
 tacaagactc tttctcaagg tggacaaggg tccatggtct tttttcccg gcttacattc 180  
 cctgatctag aggattccag aattccaatc attttactat tcagaattgc ccagctctac 240  
 ctattaaata tgccagggtc tacatattct taatcccaaa ataaaaggta cctgtcatgg 300  
 aaagattccc cagaatttca gatttccaag gctttctatc ctggaactga gggggactcc 360  
 cccctccatc ctagccccag caaatcac 388

<210> 15519

<211> 354  
 <212> DNA  
 <213> Glycine max

<400> 15519

gcgcataaac ccaccatccc ctagttgcc cctacaacta agctcaagta ctaccacgta 60  
 gcccatatac tcgtgtctct caacaacggg tccccatcaa tcctcccaa gttccaaca 120  
 tccaagttat tcaacattca cacaacacaa actatcacag ccataaaaac agggcaaagg 180  
 cagaaaactc tgcccaaac accaaccaaa atcacagctt ttctcactta agaccccagt 240  
 aacaattctt cgtccaattc gtaaccgggg atcgactcaa aatttactgg aagctctagt 300  
 cttaacctaa ttggaccgtg ggactactac aacgtcagac tattctgact actc 354

<210> 15520  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15520

ttcgccttgg cactcagctc gaccgnatct tgagcaccga gctcagctgt tgattgtgtc 60  
 cttaacggac ttgtatgtaa atgctaactc attcagttca acttactgac tgcttggtct 120  
 atttatgtca tccctctgaa gatattctgcc ctatctatca aatgttgctg cgcaaactcag 180  
 agacagtctc aaagtaagtc tcactatcaa tatatgtcag tctttaagtc agtgactgaa 240  
 cagctgagta ctgagattga tcagagactt tccatagtc catgcgtgtg attatgacat 300  
 tatttaagat attattctat ggagaaaata tggctattcc gttggtggaa ctgcatgcct 360  
 tgac 364

<210> 15521  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15521

nggtaacaag ggccgcacaa ataanatttt acacttggga attaaattca ataattcaat 60  
 ccaaaaaaat ccattatcca atggcttggg cggggatacc aactaccaag tccttagaat 120

ccagaagaag aaaaaactcc ttaaaaagat ttatcggtgg aaatgggaat attatatttt 180  
 ttttttcagt ggagaccggg atccccactt tctttttggt ttggggggcca ctggtggagg 240  
 cttcttttta tttttcaaga ctatttttta gggcatattg ttaagtgtt ataatccatc 300  
 gataccagga ataatgattt ataattttta acaagggtgg aaagagttaa attntaactt 360  
 tttgagggat gaaataa 377

<210> 15522  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15522

cttgaccact gcccggtctt agcactgcgt gcactagatt gtatctttac ttgatttgag 60  
 atatttggtg actgtacatt cactttatag tgatgatcat atgtatatgt aaatgattgt 120  
 tgctaaatta ggtacctaat cattgaatca cacataacct attaaaaata ggcagccatt 180  
 gttgatctna atcaa 195

<210> 15523  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15523

tatgaatctt caaaactcta caaagaaaga gtcaagacct attatgataa aaagttgttg 60  
 aagaaagact tcaaaccggg acaacaggtg ctacttttta attcaagatt taaattattt 120  
 cctaataagc tgaaatccaa aatggtctgg accctttgtc atcaacaaag ttcgatctta 180  
 tgggtgcaata gagctatatg acccacaatc tcaggaccct gatagagcat gggtagtaaa 240  
 tggccagtgg ttgaaactgt aacatggtga agaagttaac aggcacacaa caccttacat 300  
 tttatcaacc attgaggtaa aagcatcaag ctaatgacgt taaagaagcg cttcttggga 360  
 ggcaacacag ttctaantc ttttattctg ttntaataca ttccataatg tggaacttac 420  
 ttcataatca tta 433

<210> 15524

<211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15524

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tgtgctctct catgtaagcg actncagctc gtacncggga tectctgagt cacctgagga 60
tgcacttgca taaagcattg taagataagg ttgctctgtc tgccttgagg acaaccctc 120
acagtaggca tcataatcga atatgccata ttggagtgtc actggngaag aattcaagat 180
gatgcatttg tagttgttct aaataagtta gggttaaatc ttttttctta atacctaata 240
gaatcttagt acattagtta aaaattaaaa aagaatattt tattgtgatg taataatttt 300
cttataatta aaatctacaa aaaatattat gttgattatt aataaaaaat tacttataaa 360
tattttttta aaaaatctca aatcaatatt tgactcatca tccaccctta gtnggataat 420
tctttttttt cctaaattca ccaacaattg ttaattttt 459
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<210> 15525  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15525

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agatatttaa acaattaaaa aataagtctc cctttaatgg atttctggat ttatagctgt 60
gtgtgtgggt taagattgtc caaaaatgat aatttataaa gtttttgaag ttctagctag 120
acactcaatt aaaaaattta caggattaaa aactcgatta aaaattaata atntaaaaac 180
ttatttatag aaagttaacc ttaattgaat agtccatcct cgaaccaaac tgatattggg 240
tagaattgat caactcgatg aattgatata taaatatata tttcatcgag aaaattctac 300
caaaacaatt tt 312
```

<210> 15526  
 <211> 115  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15526

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acttatcacc tcaacagatg gcaactgaag acccatcgctc ttatagacct atgagagctg 60
```

gtatangaca aagggttttgg gatagtttta ccttagtgga ttaccccaca tactt 115

<210> 15527

<211> 557

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15527

cagctcataa ctgtagtggt atcacgtctt gtattacatc tacgctgac tgctgcacnc 60

cncacaggag caccaccatt tgaacccgtg ttggaccgcg ttgtataacg cgacacgttt 120

gaaactctag cctggccgcc ctggatctac ttcatacaatt gttgtttttg ctttttaaag 180

cagacaccag cccattgag aaagataatg gtgattggag atggcacttt caagagaaga 240

atgaatcaaa aaaaactcac caccattagg aaccctggat aagaaccttg acgtaagaga 300

agatgaatgg agggagaagg aaaaacggcg catgaaattt agtgcctctt aaaaagttga 360

actttgaagg ttaattctca aatgatcaaa gggtgaaaaa tgcacacaca tatcctctat 420

ttatagccta agtgcacaca aaattggagg gaaattgac tctattcaat ttactaaaat 480

cgaattgaat tgggagccaa attcactata tgatagtgat ctaactatgt cccccctat 540

ccaaacaagt cagttcg 557

<210> 15528

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15528

ttcccttgag caccactcgc cggatcttag caccgagctc agtcaaata ggtcaggcac 60

attcggttta ttctgtcaac ataaggctag ggattcggtt ataaaaaac tatttgaaat 120

ccatcccat ggacngtcg tgatgctaaa acatctaagt ataaaaatac tctaaatgct 180

attcttatgt ttcaaagagt gtatacccc atacgtccca cacttaaacc taaagactca 240

actcttagaa agctaaagta agtacctatg aacttaatgg agtcgagatt ttcataaact 300

cagagatcta gattactcta taaggctctt gtgggggcac ggacacgtgc tacgggcacg 360

gttggtg 367

<210> 15529  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15529

taatagtga tcaacttattg ggaggacatg ttgctatgac attaaattna atagccattc 60  
 ttggtgcata tttctaacca tgcttttgat tttggtgagc taaaaaggtg aatgtgggca 120  
 ccaccatact tagttgattg aagcacatga acaaaaaaat tgttgaatgg aaggggaatgc 180  
 aagaagagtg tgtatgtaac ttgtctttgt gtatacttaa tcttttagtct gaattttctt 240  
 ttgttttgag tccttacttt ttttaagtag ctttaactgg ttttagtagtt ttaattagtc 300

<210> 15530  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15530

gtgatcctac ataagcgact tcagctcgta cccnggatcc tctgagtcac ctgcggcatg 60  
 cagctgtgct gtnatcana acaactaagt gcgttctact attatatgtg aatcaataac 120  
 cagcatagat tcaaaggtag tatgttggtc tctaaatagc gccttcntta accgtgcttg 180  
 gtggttggaa cgccacaaag taacaangcc gcacccgcc atattgatnn ttcctccccg 240  
 gggaaacatg agtggaagga gatcttcac aaggaatcat nccaactctt gatataggct 300  
 ttgagggatc aactgggctt taattccatc cctctactgg gatcaccacg ctagtcccg 360  
 cacctgagta ctggcttgaa gaatcgccgc tgacggcagg gcacccttat actcaccata 420  
 tgttggtgtg caaaccacc cgctgtaagg ttcattgatg caaaaaacaa tatgtccagc 480  
 ctgctaa 487

<210> 15531  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15531

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ctaccttatg aattagaatt aaaaacactt tttattgatt tattttaaca ttataacatg 120  
aatgagatat atatgacaca ttaatgcctg aagagagaga agaatacgtg aaatctattc 180  
ctgcaacaac ttctaccatt tgggtgacat ccttatcagt gtgggttctt ggttttaaaa 240  
tgacataaaa gcatatactt tgttggttta tcacttgatc tatttgttac ttcacaaaat 300  
ca 302

<210> 15532

<211> 156

<212> DNA

<213> Glycine max

<400> 15532

tgcagctaact actactgcct cccactaat tatgtacata aagtttttat gaaatctatt 60  
ctatcactaa aactgcttga cacatgagac ttaaagaaga tcgtatccct ttgacttatg 120  
tgaccttaag tttagtttag tcttaaaaaa taaaaa 156

<210> 15533

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15533

tgatcatgtc atcaattcga agatgggttat tcagcttctt ttcaaactgn gaaaaaata 60  
aaacttatag ctcagacagc tgtataagaa agaagctata tcttgaagtc aacaactggt 120  
gatatttaac taaatacata cctgaataat ttttactttg ctcatcgcag gctcaatgac 180  
tccggcctcc aagttgtttc tgattatccc ttgcgaaagg tccaaacca tactggggaa 240  
aaaagagaaa aataataaca atatttagcg agatgggaaa gaatgccaaa gcttatcaag 300  
catcatttca tatgtattct ccattggtac ttttctctaa tattcattaa catattcaca 360  
tgttggaatg atac 374

<210> 15534

<211> 176



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15534

tatgtttctca agactggact aatacatttg ctgccaagt ntcattggtct ngcaagtgaa 60  
gacctcata atagtgaat atatctaact tcaaagctta taaatatant tacatgtagc 120  
gaatatatat aacacatcac aacacaatta catgttatac ccaatatata tatata 176

<210> 15535  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15535

tataagctnt gagtgggaaa tgatagttag actcaacttg gataccaacc ttgtgctaca 60  
acaattgtag caagacctag tatccataat gagagaaaat tgtttgggta aaaccttgca 120  
tcttgtaga aagatgttct ctcttttaggt ttggggttaag tcacaagatt aacttggtgg 180  
atcgaatggc ctcaagaaca ttaagaaggg ggggttaaat taattattct taaaccttta 240  
ctaattaaaa attactcttt taaggctttt actaaattgt taagagaatg aggactagaa 300  
gagaaactta acagaaagta aaagcagaaa tttaatgcac aacggaaagt aaaagagtat 360  
ggaaaaatga aacaaacaca caagagtttt tatactgggt cagcaacaac ccgtgcctac 420  
a 421

<210> 15536  
<211> 152  
<212> DNA  
<213> Glycine max

<400> 15536

caactactcg tccggatcct tagcactgag ctgcgcttga agtattcaat gattttaata 60  
acttagagaa gaaagaatat gcttcttaga acaaaagtct ggctcttgat tacatgtaca 120  
aaaacttagc tgcttactgt gtatatatct gt 152

<210> 15537  
<211> 420

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15537

tattatcata caaaaacttt taacagttac aactttttaat atttgatttt aaaatcttca 60  
aaatagtttg gcacagatag aataatcata atcagttagg atgctccatc acaattaana 120  
aagaagactt aatggatgga gcaacgtgaa taacaacaaa ttataaattc aaagatgtgt 180  
ttttttgttt cattaaatta gttacaatag taaacttaaa aaaaaagtta caatagtgc 240  
taaataccgc caaatttaag gatcaaaatg ttagcttact ctttttcttg ataaaaatcg 300  
ttgactttta aattgaataa aatattaaat taatggaaga atntgttaaa tntgtttgaa 360  
tttgattat ctttacaata gtgattaata taaaatcaag attttataac aatgttttac 420

<210> 15538  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 15538

cctacgcac taacgctatg ccatgggatt cgttaccact tttatccaat ggctgacgcc 60  
tacggatgcc tcctaaaaat gccttatctt tcaatctctc cgctccagat atgctagcgt 120  
gtgtacccaa tcctacatgg caatactttc actcctatac tgtttgaaat gtataaccca 180  
atgagctaga tatactatgt ccaagatcac ctcaatacct at 222

<210> 15539  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15539

tgtattacat cggttttttt ataaccgact tagattcaaa gatgttgaat cacgctnttg 60  
tagtagtgtc aacatgagct cgctgcttct tacccttcaa tgtgacttgt atagcaagga 120  
tagtcataag cgtaggtctg gtaatctgaa catgggaacc atccttagaa gatgtagggg 180  
gaggattgtt tgtgaaatga ggtgcgattt ggacagtggg ggtttggttt ttttcttggc 240  
cattgttagg gttaggagtt tttgggtctt tgataagaaa agagggttatt ttacaaagag 300

atztatggga gagaggagag agaa

324

<210> 15540  
<211> 167  
<212> DNA  
<213> Glycine max

<400> 15540

ctcgtttgtt aacttttata cccctgtgac tgctaccatt tacttagtca ttctcgttac 60  
ttaaataaaa taatttcacg acgttgattg attatcataa cttcgtaaata aattcgaccg 120  
tcgcggccga ccacgtggaa atcaaagagt aaaaaaaaaat taatatc 167

<210> 15541  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15541

tcttacatag tccgctnttg ctggaccttt atgcttaaaa atagaaacat tatgcataga 60  
caaaagatca agatgagtta gtaggttaaa accataaaca acttcaaaag gagaacaatt 120  
agtagtgcta tgaacaactc tattgtaagc aaactcaaca tgtggtaaac aagcttccca 180  
agtctttaag ttcttctca aaactgtcct aagcaaagtt cccaatgtcc tattaacaac 240  
ttctgtttgc ctatcagttt gtgggtgaca agtgggtgaa aataacaatt tagtgcccaa 300  
cttgccccac aaagtctgc aaaaatggct taagaactta gagtccttat cactaacaat 360  
gctccttggc aaaccatgga gtctcacaat ctccttgaaa aacaaatcag ccacatggga 420  
agcatcatca actnttntac atggaataaa at 452

<210> 15542  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15542

ngccttgctn ggccgcatat gagcaagggt tcgcgaagaa caatgggtatg tcntcttacc 60  
ggctaatacan ggctttttgg cttaacagac ggcaanaaag aatgggttata ccggataccc 120

actccggtat ctccgcccggt cacgtgtctc aaatgtcagt atgacagatc ttgtgagcgc 180  
 caaagatgac gttaatcttc gcgtggtcac gggttngtcg gccgcgattg acgaaagggc 240  
 agaagaccat gtcagcctcg catgctatca aggcctttcgt ctacagacag gcaaaaagat 300  
 tgttataccg ataccactc ggtattctcg ccgtcaccgt gctcaattgt atattgacaa 360  
 cttgtggcgc cgagatacgt aatctcccgt gtaacgggct gtcggcgcaa tgctaaggcc 420  
 acanacattc agtcttcctg ctttagcggt t 451

<210> 15543  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 15543

tggcagcatt acaaattctca atatacgttg ccaagtgtga atatggatct tcatttggtgta 60  
 aaccatgaaa caaattgctc tggtttaact atatcaataa aaggggggtaa gttaaatttt 120  
 gtgcttgaac ctctaaccgg gtaacacttg aaaaatattg cagcaccgaa atacttgaat 180  
 aatcttccaa aggcactcat cgaggggtgct cttcaatcat tactttggct tcaaattctg 240  
 cttgttgaaa atccctggat atagggtgaat taaaagatga tgacacagaa aaatgaacgt 300  
 cttcaaggat tgatgcaact tgtttgcgt gcaaaagcgt tctttttctc tctgtgggtgg 360  
 ttctttct 367

<210> 15544  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15544

ttgcaccctt cgccggtctt agcactcgct ccactattac tatcctgcat caccctattc 60  
 tatctatttg cctatgaggt anaactagac ctaactctca tcttctctaa ttcgggagat 120  
 acaagaagta ggggtgtctt caaatgagt tggttctctt gattntctat gccaaaaatg 180  
 aagtttgtgt gttaaacata aattggctta aattcctaaa tgagttttta ccaagtttga 240  
 taaacaattt aa 252

<210> 15545  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15545

aacatttgga aagtttgtnt accaagaaat gctactctta naaccaaataat ggcgtacaac 60  
 ctccctccaat aaacacaaac atcaatgtaa atttaaaaca aactcatgca catacttcct 120  
 tacgaacatt cactcgcaca agatattctt ctaactaaaa aaaatggccc catgcacaat 180  
 caaagcacct tcgttaccta gaatatttat atggactttc caggggtatt tgctacctac 240  
 atcacatgca cttccttggc taaatttaca tacatgcata ctcaaagcat cttggctacc 300  
 aaaaattgca cacgtgcaca ttcttgatt tctaatacct atgcatatac aaacttcgng 360  
 ataatcttgg ctatctacac aa 382

<210> 15546  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15546

gacaccttc gcactcactc gtacengatc ttaagtcact ggggctgcag cttgctcaag 60  
 aggtcacgaa gacaggccgn cgattgacta nntcccggcc ngagtacgac agtcaccgct 120  
 ttatgaacgt ngtacaccag cagcgcttcg aagccatcaa gggatgggtcg tttcttcggg 180  
 agcgacgcgt ccaactcatg gacgacgagt atactgattt tcatgaggaa atanggcgcc 240  
 cgctgttggc accaactggg acttccatgg cccagnttga tccagaaata gtccttgagt 300  
 tgtacgcca tgctnngcca acagaagaaa gcgtgcctga catgatattc ttgggttagg 360  
 gtcagtggat ccccttcgat gccgacgctt tcaccagctt ctgggatttc catgggttga 420  
 agaaggccag aatgcaattt ggccaaggat gaccggtcga tgggttcata agaggcatcc 480  
 ccacttgttt ttact 495

<210> 15547  
 <211> 355  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15547

ttataagcgc nggtctggga gacaagggtc agtggttcgag atatgcgaag atgatgttcc 60  
gagtattttg gatttgggtac gaccatgccc ttctgatttc taactgggaa attggcgagt 120  
ggaggaacgc cccggcattt acgcgtcgag cctaattgga acctttacgg ttttaaaagc 180  
tctatagttg ggcctacgct ttaaaagttt tccttttgtt aaggctttgt gtcttttgtt 240  
tttgaatcta taatacaagg atctttcttc atctgttctt ggtctctacc cattctcatt 300  
catttgcattg tntacttctt tttctgaaac ggcagatccg atgacgagtc ccccg 355

<210> 15548

<211> 240

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15548

acagcagaat ttagtaatga ccactaacc tataattaaa taacttaatg ccattaacct 60  
anggaattaa aacacactta atggctgagt gtaactgata ttgtggcaac caaaagtcac 120  
ccccaacagc caacaagtca gccaccattt gggctctcaa aaagctgatg cctatgttgc 180  
caattgagcc cttattacaa cttgaactaa agccctttta gtgataaccc aaacatattt 240

<210> 15549

<211> 226

<212> DNA

<213> Glycine max

<400> 15549

aaataactta aagccattaa cctaaggaat taaaacaaac taaatggcct gatgtcactg 60  
aaattggtgg caacccaaaag ttacccccaa cagccaacaa gtcagccacc atttggctct 120  
ccaaaaagct gatgcctaag ttgccaatg tgcccttatt accacttgaa ctaaagccct 180  
tttaagtgat taacccaaaa catatttttg gtcagccaac ttaca 226

<210> 15550

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15550

aatggagaat ngcactangc aatcactacg catatctcct atactcgagg tggangacac 60  
atgaacgaaa aacacattca tggggcttcc aacaaaggng tngataatgg agaattacac 120  
taagccatca ctacgcatag cttccaactt cgagggtggag gacacatgaa cgaatacgca 180  
attcatggtg cttcgaaaga ttgaaatgga gaattcactt cgcataccta cccttgctcc 240  
aacgcaaggt ggagaccata acgaaaccca ttctgggctc aaaagattag aatgaaaatg 300  
tctancaatc ctctcatatc tcaactcgat gtggagaaca taacaatacc caattatgtg 360  
ttcgaaaaat ccaatgagaa tttcttacaa tccttcctac tccaactgaa ggg 413

<210> 15551

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15551

tgaatagttc gttcaatctg accatctgtn tgaggatgat aagctgaact aagcttcagc 60  
tttgttccca aagcttcatg tagacttgtc caaaatcgcg aagtgaacct tggatccctg 120  
tcagatacaa tactagaagg aatttcatgc aaccttacta ctttcttgat atacaactcc 180  
acgtagcttt ccattctata cctcatattc actgcgataa aatgagcaga tttggtgagt 240  
cgatctacta tgaccacaca 259

<210> 15552

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15552

ttgcacctat atggcactca ctogaccgga tccttagcac tgagctgcgc tgctaaaata 60  
gaagacaacg tcattgaaca ttctccaat tgaacctcgt tagacctgca cacacgcttt 120  
agctcaagat ggcattctcg gaagaccatn cacttaggac acagttctgc ctcaagagaa 180  
tattcccggc gtggctcgtg ttacccatgc cattcaccaa ctatctcatt tatocagctg 240

ccaagagggg caaatcactt gtgaggcatg atctttatcg gtgcctaaca gttctggatt 300  
 ccttatgctg agaggccaga ntgcagttgg ccaaaaggat cggccatggg ttgttaggag 360  
 catccccatt gtggtt 376

<210> 15553  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15553

tctccccaa ttttctatta ataggggttt atgtgaagtg aaaaaggggt cagcccccta 60  
 ggcccttctc tctctttcga atttgcttgg aaaaattgtn tccgtgaaga aaattcaagc 120  
 cgaggcgctt ccgaaacgtt tctgtaacgt ntccgtgagg aatttcgcga aggttttgac 180  
 cggctcttca cgttcttcat tcgttcttca cccgtcttcg atcttcaacg ggtaagtacc 240  
 tcgaaccaag cttttcgatt cattctatgt acccgtgggtg gtccacattg tgtttcgagt 300  
 attntattct cgtttcattt actttntata cncocctttg acgtgcttaa ccattttatt 360  
 taagtcatth cttgcttaac ctaaaataaa ataaatth 398

<210> 15554  
 <211> 90  
 <212> DNA  
 <213> Glycine max

<400> 15554

aatacttgtc accacttgaa cttaaatac cctatagact catataagtc caatcatata 60  
 taatgtctta atttagatat ttctattaac 90

<210> 15555  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15555

cacatgaagt tgtgacagt atgatcttaa actttgtatt tgtgagagta ttctttttgg 60  
 aggttgatca tttccatgga gacatcatgg atgggcaagc ttggatatga aaatgcaatc 120



cttcttggtgt tgctcttcgg tactttttatt tatattggtg attgacttac atcttacgta 180  
 gggtatcttt acaaagttgt ttatgcttat atgtaggttt tgaggaaatn tgagttatta 240  
 tgggtgtagtg tgtgtgtgcc tatatatata tatcatgtca tgttttaa atggagtcgt 300  
 gccatttagc ctttgggact tccaatgcaa aaagttataa gtattcta atcaaataat 360  
 tgaagagttt aaatgaatta aatgaatgtc ttcacttaat tag 403

<210> 15556  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15556

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 ttaangatag aaactaagaa gaggattcct ggtactataa aaattaaata agtaatttaa 120  
 ctttaataaaa ttaaataacg tgtaggtaaa cttgattcaa tgtaattatt tatctagatg 180  
 caatatcatt ctttaactac ataaaatatt ggattttaat caattattag attagttatt 240  
 aactttggtt ggatttttaa cttattttat gacttctaaa attattttta attgaataga 300  
 ataaattaac attaagtagc atcttattat ttgataaaac accgttttat tcatttc 357

<210> 15557  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 15557

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 actgattcgt taatttaatt ttatgtatat tgaaagtgtg cttgagttgc gaaagaccat 120  
 ctattattcc ttaaatacagt ttacattgg taattcggat tgtatgtgtg ttttgggtgc 180  
 cctgagccta tatggaattt gtaatcatga ttttgaagat ttgaagttag ataagaaatc 240  
 gtgaattgat ttttctttgc ttctatcttg gattattaga tgattatcgg ctcttctgtg 300  
 gggatcttgg taacgaggtg aatgatgatg ttctctcaaa gcattttcac cgtttccttt 360  
 ctttaacttg gcacgagtaa gtggattcct catctatctc gagttotcat tatgtttagt 420

tatgat

426

<210> 15558  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15558

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agctcagatg gaggtgggca acaggggatg gtgggtttat tgcgcgcctt gtggatgtga 120  
aaaacntggt gtgcaccatc gcccgaccgc cacctagtac cacatgtgat gggtagccca 180  
tanticcaca agcttgagat gaagaagtgt taagggtgaa acttcttgct ttattgtgac 240  
cacgagtgtg cctgagatat gtcnngttgt cagaaactt gggacgtcaa gtgggtgttt 300  
tgcccaaaca ncttgaccat ccgaccacc cgcctattcg gtcatagaac tttatttcct 360  
accggaagct ctggcgcaact attaaggaac caaacccaag caggtgtttt gg 412

<210> 15559  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15559

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caagttgaaa gccttgaggg aaaaaggtat gcctatgttg ttgtggatga tntctccaga 120  
tttacctgcy tcaactttat cagagaaaaa tcagacacct ttgaagtatt caaggagttg 180  
agtctaagac ttcaaagaga aaaagactgt gtcacatga gaatcaggag tgaccatggc 240  
agagagtntg aaacacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag 300  
ttctctgcag ccattacacc acaacaaaat ggtatagttg aaaggaaaaa caggactttg 360  
caagaagctg ctaaggatcat gtcacatgcc anagaacttc cctataatct c 411

<210> 15560  
<211> 103  
<212> DNA  
<213> Glycine max

<400> 15560

actcgccgga tccttagcac tgagctgcac tgatgtccca ttatggtatt tgagaatttg 60  
aataatctgt ttatgtatgt gctctaactc tcttggatta gat 103

<210> 15561

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15561

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atcatcctac taggacgact gagannactg gggcaaatga agaggggtgag aaagaggggag 120  
aaacccatgt tgtgactgcc attcctatac ggccaagtgt cccaccaaac ccaacaatgt 180  
cattactcag tcaataacaa acctcctcct taccacccac ccagttatcc acaaaggcca 240  
tccttaaatac aaccacaaag tctgtctacc gcacttccaa tgacgaacac cacctttagc 300  
acaaacccaaa aacaccaacc aagaaagtga atttgcagcg agaaagcctg tagaattcac 360  
cccaattcca gtgtcctatg ctgacttgcg cccatatcta ctngataatt caatg 415

<210> 15562

<211> 138

<212> DNA

<213> Glycine max

<400> 15562

tgcatcactc gccggatctt acacgagctc gctttatctt taagacaggc atgagatctt 60  
ctgttccttg agagctatgt cttcttcagg aagattttta tgatttcaga ttctagagat 120  
cactatctgg aatgactc 138

<210> 15563

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15563

nggcttagcg cgaggataag accgcttagt gagggttgca aatccggaaa gctataactc 60

tcactaagcc aggcctctggc tggcttagct aaaatgatgc atattaagta cagaggagca 120  
 tgcgctaagc tgataaggac tcacttagcg ctcacattgc cgcaaggaat tcaacttagc 180  
 ttccatgact ggcgcttagc ttcattggacc tcagttttgg tcgtacggaa tttagcttgg 240  
 tgacaatagg tcatgcttag ccaaagataa gctatcactt atcgatcagg ctaaagctta 300  
 gctgaattca gatcgaattg aagttggctt agctca 336

<210> 15564  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 15564

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 gcttagattt ctttctatat gagcatgtga cactgggtgga cttgaggatg gaagctatga 120  
 gatcctcaag tcaactcttcc tcttatctta attggctccc tcttttcttc tctggctctt 180  
 cagctttcag tattggggag tctctctgtt atctggaggg cgcttacctt tctgctcgtg 240  
 ttctgggaaa cctaggtttg actagacacc ctagcccaga ctctcatcct gtacatgtct 300  
 ccaacttcta caagggaatt t 321

<210> 15565  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15565

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 agcacgaaat tgaaggaata aaagagggaa agaagtggaa ctttgaagtg tatctcataa 120  
 gactttcatt catcaaagtt acaacaagtg ttacacatgc ttctatttat agactaggtg 180  
 gcttccttga gaagctttct taagaaaact tccttgagaa gcttccttga gaaagcttcc 240  
 ttgagaagct agaagtttagc tacacacacc catctaanaa ctaagctcac ctccttgaga 300  
 agcttccttg agaagctaga acttacttca cacccttata tagctagctc accctctgac 360  
 aaaaacatga aattacaaaa aatc 384

<210> 15566  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15566

gttctccact ccagtagatc tcctaaccat agaataattca ttaataatct tactctccn 60  
 nnnnnnngat tagccttgac cagctgccgg acttaagcac gcgctcacct aaaaatgtat 120  
 agtgcatttt tcttcttata ttgccatgaa tattgcatac catacttgca tttccataga 180  
 aagaaatata aattatttac atttgtatca atactaatat accaacaat gcctttaatt 240  
 tatcgaatgt tctccaaaat aaactttaac aaacctttgt gggcggaat aacagacttc 300  
 gcgctaagca caccactaca tgtaacttta tgctcgatct gcctctgac tcaacctagc 360  
 ccaattgcaa aacatctttt attttttcaa aaaaacctat t 401

<210> 15567  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 15567

tgaatgaata gatcctcttt tctatcaagc attttatcgc tatgcaatgg gtccctttta 60  
 gtccaattaa tcaatattct gtggcagcat tttgttcccc acacggatat tctctttta 120  
 gttactgatg cagaatttcc aaaatgtaca aagcgaaaag atgaatttac tttcgcataa 180  
 caaaaaatcc ggaaaaaaa aaaaactgtg tggacagatt catatatgca caataaaaac 240  
 gacacgtgta gataaaaaca ttataaatcc caaaatcaca aatcaaaatc ataataaag 300  
 ccacaatcat ttgggtgcac gccactgctc gttaacgggt atttattaaa tgacaattat 360  
 gaagaaacta aaaatataat t 381

<210> 15568  
 <211> 601  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15568

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agtcgccac taacctnnnn nnnnnnnnccgc gcaccatatg agacancnnc cgnnccggga 120  
 ccaaaagcaa ccgcagcccc acctaatacct gcaacaagaa acaaccgggt ccaagacatt 180  
 atgccacaca acgcgatccc ggacagcggg cacaaaaggc acacacatga gaacagccgt 240  
 ggcccactca ccaacacctc gcgaaccaag acatcaacta ccgaaacaat ataacccaag 300  
 aatacgaatc ccaagacaag caaacaagtc ggcgcaaccc ccggaaaagc agcccaaagc 360  
 gaaccaagt cacacgctaa ccggacctcc cctcaaagtg gccactata agatataaat 420  
 aaaaccaacg catcccgcgc aaaaggacca cacccaaaca tcgcagggga ctacggccgc 480  
 aagcacaaaa gatgcatacc gggaacataa aaacaacaac tcacaccctt caaaacaaac 540  
 acaacaaga ggatgaaaca ccagcccgg gagagaacac aaccaatac cgccaaacgc 600  
 g 601

<210> 15569  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 15569  
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 tgcattagtc cggacaccta attattggat attcaccata attaagaaat ggtgggtttta 120  
 aaattttaaa ggtttataat caagcaatat tggttaacta ataaaaatat cacacacggg 180  
 cattggaaca tcagggtatg cgcgaaaata taacatacct gaatatcttg tgcttagata 240  
 acatttatta a 251

<210> 15570  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15570  
 tcaaactcaa ggcaacactt cctcgggtcca atgtctataa acttaagttc acccttggtg 60  
 agcactttct ngttctaagt tccatcttca aaggaaactg angtaacaaa nggtctgtcc 120  
 ctgaccatct tctttattcc taagttttat ctgtctagga atacgagtat ttatataacc 180

caanggctgg ccttggtaca gattccttca naaaccacag gtcacccttt ggtcctactt 240  
cctgtaaaac ccaagcattc cctaagtcca attacttcca gcgaccatga cgaacaccat 300  
caaacgtcta agtccacaac acaactccac caaactatth ggaaagcctt caacaagtgg 360  
agtctacttc ttctcaaacc tcaaaaaaaaaa ettccaagta aacgaacatc ccaaatagtg 420  
caaacctcat caatccg 437

<210> 15571  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15571

tcaagctggc actatgtatn tgaatataag aatggttagtc ctgtattgta ttatnttcac 60  
ttctccatct tatagatatt gccttaatat aaaaaactaa aaagacagga gaaatcactt 120  
tctctcttct agctttttaca ttttttatag aaagaaaatg taagaaataa tgattaggag 180  
taacatttga attntgagtt cctccaaatg ccataaggaa aatgaaaaca tgaactttcg 240  
tggttgctg tatagaagac tatatcactt attgctaatt ctagctgtat gtaccatgag 300  
tcgaatntct attccaagct tcattctcct ttgacagtat aatataaaat caaagggtgc 360  
acagtgcatt aaatcattan gtggttcatt caataatatt acgatgtacg acttgtaatt 420  
ttctaccgt caagacgggt ctttctcttc ttaaa 455

<210> 15572  
<211> 566  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15572

accccatcaa acacatgacc gcaccttacc gccccacga acgcaaccaa ctcacacaaa 60  
aacacnnnnn nnaggcacct tgagcaccac cgaccggacc caagcaccgc agctgcagct 120  
gcaccactcg ccaaccagca ggtgcttctt cataacaaca gccacggagg atcctctggg 180  
ggccaagtgg caaagggtcca tcacacccca tttaacaagc accgcccctt ttaggagaaa 240  
tatttcgcac agaacagcaa ctaacaaaaa tcgaaaacaa acaccgctaa ctatccggaa 300

aggcaaccgc accccttgag gagaacagta tacatacctc acctgtgaca ctaccggaaa 360  
ggaatggaac cccacctaata aggaccaacc acgccctcca atacaatncc acgcggaggc 420  
accggaaacc ccacgagaaa gagcaccaat cacattcctc taggtatcca gcgcccaccc 480  
ggaaatcaac aacacgcccataaatgggtcg caacacccac aaagagcata cagaagacgc 540  
agcactcaac aaaggcacag accaaa 566

<210> 15573  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 15573

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aggaggaact aacacatttg aggggtcaatc ctcttcaacg ggaaggggat gatgcaatcc 120  
tccctaggaa gggaccaatc actagaacca tgagcaagag gctccaagaa gattgggcta 180  
cagctgctga agaatgccat atggttctca tgaaccttaa ggtagatttt tgaacccatg 240  
gaccaatgat ggggtacaatt atctttgtac atattagact acgaattcat tatactcggt 300  
ccttgtatat atggctccat attgcaagta tgggtgcccta aaatatatg 349

<210> 15574  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15574

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tgaaacggaa aacaccttct ctctgtgtga caaagtgtcc tgaattgtcg ggtagaacct 120  
ggactcagtg ggggtatgcc aaccaccttg acatccacca cccggctatc tcatgaaact 180  
ggactactaa cagcgagctc tgcagtcacc attaaaaaca taacctcata catgtgcttg 240  
gtgtggctgc actttgattt gagggtttgg aattggctct gtatcattcc atgggtggtat 300  
cttttctagc taaattgaac aggagtaggg gccctgaatc atacaagggt gatcatccaa 360  
gctaaatgaa cttacttaat gctctgatta cg 392



<210> 15575  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15575

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aactggggttg cctcccaggg agtgcttctt taacatcatt aagcttgacg cttntacctt 120
attgggcgaa tcaatgaaca gtgtcttgtg tcttgataaa ctccttncca tgatacaatt 180
ttaacctttg gccatttcaa cccatgttct ttcagattc tgagattgtg ggtcatatag 240
ctctattgca ccataagatc gaactttctt gataacaaaa ggtctagaac atgtggattt 300
cagcttacca gaaaacaact tccatcttga attaaacagt agtacttctt ggtcccat 360
gaattctctc ttcacaactt cttatcgtga tacgtcttca cctattcttt gataagtc 420
gaagattcat atgctggtaa tcac 444
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<210> 15576  
 <211> 579  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15576

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atcggtaatt aatagtaaga aatatacnca aannnnnnnn aaaaattaca catataagga 120
gcancactcg ncccgggaac acaaagcgac tgcggcatcn agctnggcaa agcaacngag 180
aaaagcagac gggtttatta cttccgatgt cggtattgcg cttctagtcg aggccaatat 240
atttcgacga cgacatcaac caaaccataa agaacttgag ggtcatgacc aaggcaactt 300
aacaaccca cacgctaaaa caaggggaaa tagaaagctg cactatgatg aagacgcaa 360
caggaaaaga taaaggccac aggcaaagca ctacagaaca actattgtag tgaaagcccc 420
aaccactgga aagccacgaa acaaagcaat agtataaatc aacttaatgg catattaggg 480
caacctgctt gaacccacg tntacttata ttaaggtcaa cgcacctaaa agaataggct 540
ttgtagtcaa taacagatct ctagcatatc aacaaaacc 579
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<210> 15577  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15577

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 gacgccagca tctagatttc tcctgagccc gacacccata ttctaaggat tannctgacc 120  
 atnccgagga gcggtcagcg gtcaaattcc aaccttgagg gtctctatac accatgcgcc 180  
 ggcatccgac ttacagctga gatgatatga ccatttcgag aggcgataga gatcgggttc 240  
 caacgccgac agattcgata caccatacac cgtcacacga cagacaagtg ataagctatg 300  
 gacatttgag aaagacgaga gcgtccacat ttcaatcgtc agcgaatata attaccatgg 360  
 acccgaatcc gacgtacgag tgaaaagtca tgagatttcg atactctaga gcttccaatg 420  
 ttcactggct agcgtataaa tatctcacga gtctggaatc cgacagttca agtgataacc 480  
 tatgaacact tgcatacttc acagcttccg atgtatacg 519

<210> 15578  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15578

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 catcataaac tcatatcaat catcaatacn nnnnntnnnt tattgacata ttagcgactt 120  
 cactcgaccg ggacctctaa agtcaactga agatgcagct tttcctgagc ttcaactnta 180  
 gccctacggt gtttctatgt tgctcatgtg ctctcctatc tcaataacag ccatctatgg 240  
 gcatacttct ttgatgttta caatcctttt tgaatgcttg cacttaaact tgtagagtaa 300  
 atcaatgtga cttgactgtt gctgaaactc accctaacat tcctaagcga aatgggcccc 360  
 caaactgatg accatttaag cctgctcagt aaatgtctga aacaatggaa atacctttat 420  
 ttccactgtg tcccttttct aaaacaaacc tgaagattaa aattttttta catcaccaca 480  
 accctcatat tcataaact tggttattga tattttaaag attcctcccc aaaaaaaga 540

<210> 15579  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15579

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 ctcgttacat cgagaggcaa tgatgtggat ggatcgattt gcccttactt tgaacgtgag 180  
 tcaagaactt ccccgattgc tggccaaggc caaagcaatg gcagacgcct actctgcccc 240  
 caaggagatc cacggactcc tcaactattg taagcatatg atagactaaa tgggctatat 300  
 aattaacaac cgctagggag tttggattgt cactcagatc ttgactagat ataactttct 360  
 gaataacatg agtttatgcc gcttgtntac ttccaaatca ttgcgaatca aatc 414

<210> 15580  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15580

gtgtcttang actaacaatg gcttgggaatt ctattctacn aaaccaatg aattctgtaa 60  
 ggggtgaagac attgcangac aacgtactgt acgttatact c 101

<210> 15581  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15581

tctttganag aaaatggagg agaaagtatt ttaatagcat gtggacgtgg aagaggacgt 60  
 ggtcgtggcc aatgaagagg aggaagagga gatcgtgata attttgacaa taatgaatgg 120  
 aggagccatc aatccactan aagttgtgga agaggaagag aaagaggtag aaacaattat 180  
 gataaagcat atgaaaggag gtatgataaa tctaagtgtg aatgttttaa ttgtcataaa 240  
 tatggccatt actcttggga gtgtagaaca aatgttgaag agaagggtcaa tcttgttgat 300

gataaagaag ataaagaagt tgaagagcca gcactactac tatcnactta taatgggtgag 360  
aaggaagaca aatgcttatg gtatcttgac aatggagcaa gcaatcacat gtgtggatgc 420  
aaagagaaat ntgtggaact tgatgagaat 450

<210> 15582  
<211> 486  
<212> DNA  
<213> Glycine max

<400> 15582

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ctgctgcatg cagcttgctg gaaaatgcaa gagaaaatat ctatgtgcat acttgattct 120  
aatggtaagc tcttgctgcc tcggaatata tatatatata tatatatata 180  
tatctatata tctatatata catatatatt atcgcgacat cacatgtatt ggtccggggtt 240  
atggagaaaa tacaacgcca accagataag aattcctcct cttcttcaat ttttttcata 300  
aaagcttttg caatgtcctt tagagacaaa aggttggtcaa cctccctagt cgctaaaaaa 360  
aaaaaatct ttatttttct gcacgaaact ctacaaaaat aacgcttgcc taaaaagtcg 420  
aatacatttc tcaaagggag agtaatcttc ttctccttgt aaaattactt tcttccacaa 480  
acagcc 486

<210> 15583  
<211> 208  
<212> DNA  
<213> Glycine max

<400> 15583

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ctcaaccaac catggaccga accttaccat cgtaaggacc caacttcacc attggtgcc 120  
ctcgttgttg ttggccatgg agtcctcgct ctctctgtct ctcgattca attgagttta 180  
taattagggg ttaataatca atttcctt 208

<210> 15584  
<211> 230  
<212> DNA  
<213> Glycine max

<400> 15584

acctaaacca caaatagaaa tagtcgtagc taatgaccct ctgccaagtt aacatctata 60  
 aaaataagac ttggcctatg ctgtgagcac acaataactt ttttcttcaa aagtcttatg 120  
 gctgctatcg gaagcgactg gcaaaaattt attacaccaa gtaagtactt atctggccat 180  
 aaacccttg agacagtcac aaaaataatg atgacggaaa aaaaactaca 230

<210> 15585

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15585

ttattgatnn tagttttgcc ggcganagga tcanagtggg tcttagaaga gacaaatttg 60  
 attatcctgc tttgatgaat agaaagcctt gggaaaatgg agagaatgag aaagatggag 120  
 gaacccatgc tgtgactgcc gtttctacat ggccaaattt cccaccagct caacaatatc 180  
 aaatactcag ctaatatcaa cctttctcat taccaccacac cctatcaacc aagaacactc 240  
 aatcatccgc aaaggccacc cctaaatcag ccacaaagcc tgcttgccgc acatccgata 300  
 ccaaacacca ccctgaacac aaatcanaac actaaccagg gaaggaattt tccagaaaag 360  
 aagctttag aattcacccc aattccaatg tcgtatgcta acttactccc atatctactc 420  
 aataatgca 429

<210> 15586

<211> 229

<212> DNA

<213> Glycine max

<400> 15586

ctgaataaga tcatttacia atatgtcttc tacttaagtg ctacttataa tactacttag 60  
 gaaatcatat catatatatt atcaagatat acacacctgt cctattatat gacaattctg 120  
 ctctactttt ataataacta tacgtaaaat tatacttaga catataacgc ttgtcctatt 180  
 tgttttttaa actaaaacc ataccaattt gtccaagtaa aaatgtcaa 229

<210> 15587

<211> 401

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15587

tctacaactg gcaaactaag aaactcgtca tcagccgaga tgttgaagtt gatgagtacg 60  
cttcttggaa ttgggatgaa gaaaaagtgg agaagaacgt tcttataccc gctcaactac 120  
cctcagaaga agctgaggaa gaagacccag gtgaaccacc ttcaccttca ccacaacaac 180  
aagatcaaga actatcatca ccaaagtcta ctccaagacg agtaagatct ttggtggaca 240  
tatatgaaac ctgtaacttg gccatacttg aacctggaag ctttgaagaa gcgtaaaaga 300  
atgaagtatg ggtctagggc aatggagaag agatacagat gatcgangga aacaacacat 360  
gggangtagt aaatcgtccc catgaanaag atatcattgg g 401

<210> 15588  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 15588

ctgccggtct tagcactgcg gctacttttg aacctgctgg ctttaattttt taaccaactg 60  
ctggaattta ctcgttttta ccgtgattct gaattgattg tgtaacgtta gtccaccttc 120  
ccgtggattg gaatatattg tgaggggaaag gattctaaat atcagtgagt taattctctc 180  
gctttgcgtt gaattttcga catcgagata ttgagattaa gaatgtaaat gtctattatt 240  
gatgtgataa gatgacatta aagaattgat tgattccttt ctgcttttag cttatttatt 300  
aaaatattct atgaatg 317

<210> 15589  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15589

gtatgaatca tttcaattat ctctgctaaa cgctgatgtt ttacangaag ttccctggaa 60  
ttatccattt caaaatgaag ttttcaactt ttttattggc atatagaatt ttctgggtcaa 120  
gcaaagaact tgtgcccatg cctgtgcctg tgtttatatg cacacacaca cctgtgtgtg 180

tgtgtgcgcg cgcgcgcggtg catgcgcgcn agagagagag agagagagag agaattctgt 240  
 gcttacttca agccaagtaa ctctgcagtc gcccttgaca ccaagaacac cagagctggg 300  
 ctcacacctt tcccaccagc actaaaaatc tgctcagctg cagacatcaa aacaggattn 360  
 tctgctccaa caatctatca aagaatcttc atcagatata ttaaaagtta ggcaacanaa 420  
 atctagtcac caccgtttgc aaagcanaag aatctaaaa 459

<210> 15590  
 <211> 69  
 <212> DNA  
 <213> Glycine max

<400> 15590  
 ctaatcttct ttcttggtca tcatcaagta attttttttg tgcttttctt tttttgagcc 60  
 tttttttttt 69

<210> 15591  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 15591  
 atgaaactca aggggattct ggtgaaaatg atggagatca gatcgctcct tttgctaggg 60  
 agctcacgaa cacaccagct aaaaagctta ttaggaagca caccaagaag ttgcagtcta 120  
 aagcacaaaa agggttgctc taaagtcact tccatgttat tggtttttga ctacttaatt 180  
 cattatgatt tgtgaataaa ttttaattat ttggataaga ttaaaaaatt ag 232

<210> 15592  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15592  
 tgtgcacata ttgcgactca ctcggtcccg ggatctctta gtcacctgga ggctgcagcc 60  
 tgtgcttcat attctgggaa ggtggcctta tggctcttat gactggacct atacatttgc 120  
 tggccaaggt tcattgtcct gcaagtgaga tcctcttata gtgaatattt ttacttcaag 180

cttttaatta ttacatgtnc cgatataatt acacatccaa caccattaca tgttatacc 240  
aatatatata tatattttat attagccaga actatatgaa tatcttcact cttgcaaacg 300  
gttaccatta atatctcgat gataatgttt acattattac tggccctgaa gaaacctcta 360  
cgatcattat ttgcggggaa tccgtaccat ttaatgccat tataacgtta actttttttg 420  
ccctgaagga ccttatttta attattacgc tgaatcgttc 460

<210> 15593  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15593

agtgggaaat gatagtgaga ctcaacttgt ataccaacct ttgtgctaca acaatggtag 60  
ccagacctag tattcataat gagagaaaat tttntgggta aaaccttgca tcttgatga 120  
aagatgggtct ctctttaagt ttgggttaag gcacaagatt tacttggttg atcgagtggc 180  
ctcagaacaa ttaagaaggg gggggtaaat taattattct taaaccttta ctaattaaaa 240  
attactcttt taaggctttt actaaattgg taagagaaatg aggactanaa gagaaactta 300  
acagaaagta aaagcagaaa ttaaa 325

<210> 15594  
<211> 273  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15594

ttgaaggcca tttctctctt tgcaacgtac tngctgttaa tctgtctcta tctcataaac 60  
ccactcttcc ctaccaatct cctatcactc ttcttcctta attttcactc atctaattac 120  
tatttctgac gacacctat cctatctcac tattcttggg attcttctct tctcttctc 180  
ctctcgagcc ctctttctct ctaattgcag tgcgaccaat tgtaaagcta cttgggatag 240  
caaccttcac tcaactcgac ctaaaaaaaaa aaa 273

<210> 15595  
<211> 306  
<212> DNA



<213> Glycine max

<400> 15595

gaaagctaac accatccatt agacctacct ctggtggtcc acaaatcact aattatacca 60  
gaaccaaccg acattctggt tcaaacagat cataaaggcc aaaagaccaa ccaagacatg 120  
caatggccaa aaacagcaga ggcagtatca tactatcatc aattacactc gaagaaattc 180  
acagaagacc cacatattca gatccaaact ttacacgact aagaaagaga tcaacctttg 240  
caaccaacc atgtcaagat ctaaccaata ccaactcaaa ttataaaaaa ataaaaaaa 300  
ccaaga 306

<210> 15596

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15596

tgacnccttg cattgctctg gttatttnnt aatatatata tatatatata tatacggata 60  
tatatatata tatatatata tatatatata tatatatata tacataantt tatatttatt 120  
tattcataaa taaaaaccat agtctttaat attttattct atcgtgaaat atattcatat 180  
atztatgaga gaaggcgata atcatatatt tattcgaggt attttatctt aaagagtgag 240  
gatatcacat gtttcttggga acgttttact cgctccagca ataatggggg gcaccatctc 300  
tggaataata atcttctcta aaaaactatc cctcttaatg atttctgggg ggaccacct 360  
tcatattcaa ctggaaaaaa ttcatTTTT atgacccagg tcttttaact ataagccgtc 420  
g 421

<210> 15597

<211> 299

<212> DNA

<213> Glycine max

<400> 15597

tacatagttt tttggttggt catgaatggg ctcaaaacaa atcattttca aagaagggtg 60  
atTTTTtaat cgacctcatt tggttgaggg tgaacattct tctttttgga aaaaaaaat 120  
gaatTTTTTT taaacaaatt atcccagtgc atggaatgcc actattaaag gtcttttcat 180

tcctataaac aaataaatgg tgaattagta cctaaagaat gggatgaaat gaatgatgac 240  
tagaaaataa aagtgccaaa tgatcaaaaa gctaaaaaca tttaaacttc tggttttatc 299

<210> 15598  
<211> 341  
<212> DNA  
<213> Glycine max  
<400> 15598

tgtccttttg gcactcactc gtccgggatc ttaagcactg agctgcactg tgattgctta 60  
cgagaagact tgtggttaaa aagcaatcga ctctgcttgt aatgcaaaaa aaactaggaa 120  
tgaaagggaa agtggaaacca tgcgggatgca tcttcaccag ttccccccca catgtatact 180  
acataacacc tctctacccc gcctttgaca agctttctaata acccagatgt cccattcatg 240  
cacatactac catcaaacct ccagaagatt tgccaaaaaa ctggataccc atccggcctt 300  
tactgtctgc cccatagatg ggccaacctg ttgtctattc t 341

<210> 15599  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15599

gactttttcca tatacacctg aacaatatgg tacacctgaa agaaagcata gacattggac 60  
aaaaactggt ctactcttg tggcttcagc ttctctttct tgaaattttt ggggagagtc 120  
attcaacact gcagctacta taatcaatta tcttccttca cctgccctta acaatatgag 180  
tccttttgaa aaattgtttc ataaanaacc agattataaa gtcttgagag tgtttggatg 240  
tgtntgtatc ctctattacg accttattaa taacacaaac ttgactttcg gcacacatgt 300  
gcctattcat tggatat 316

<210> 15600  
<211> 203  
<212> DNA  
<213> Glycine max  
<400> 15600

cttttgcac actcgccgga tcttatcac cgctcactac atccaccacc ggctatcttt 60  
 taaacgtatg gctaaagcac tctgcgtcac aatatagaca agaccaaca ggagctgttg 120  
 gggttgcact ggaacttatg tatatggata tgcttgatc atacaagtgg tatcatacag 180  
 gctaaggaac ttacttaatg ctt 203

<210> 15601  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15601

atggcttatt ccctaattgga tggcgccctcc tttcacctct tctcctttgg cttccgctgc 60  
 atctccatgg tgaaaaatct ccattaaagg acctcatttg aactcaaaga tccagccttc 120  
 atagaagccc cacaagcaag ctcccatcac attcctacac gggcaaattt cccatcagcc 180  
 caacaatgtc attactcaac caataacagt cctctcacc caatcatcca taaaagccat 240  
 ccccaaatta accacaaggc atgcctgctt accaaatgca caatgcccac acaccaccta 300  
 tagcgcaaac caaaaaggaa tttttagca naaaacttgt atgattcacc ccanattccg 360  
 gtgtcatatg ctaacttgct cccatatcta ctgataatg caatg 405

<210> 15602  
 <211> 750  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15602

acgcacacca ctgccaccac gaaccnacca cctaactgga cactcncaca gctacacgca 60  
 ccacgacgac gaacgacacc atataacann nnnnnnnnnn ggtgtgaccg atctagcaac 120  
 gcnaacnnnn annngnngat acatgcacac cacaagctgc atgcacgccg cgaagcatgg 180  
 tagagcnacg cagactccat atatgcttgt gctttctaca caccgcgaa caaccacac 240  
 ccggcgggcg gcgcgcgga acgcantaca acaggacccc cagccanca cagacaangc 300  
 accccacact acacacaaca agagaggngc gacgaccacg acacacacgc aactcgtcg 360  
 actcagatg cacaccgcac gacaacacta tetatategc gcacaccaac acatatcact 420

actactgtgg cacagaccgg gngaaccaca cactcctatg cctcggcaca cacaacacta 480  
cgccggacct ccgcgcgcac ccacacgcag taatgcacgc cgccaacgaa cccgataggc 540  
aacgacgccg aatcaccgaa ccgctgctta cagctcggga tcacccgcgc gcgagacaca 600  
cacctancac gagagacaag cccggctaac ccacacaaaa cataccgacg aggcgtgaac 660  
agaccgcggc agacgactta ctgcacactc cactctagct acccacaatg cagcaacggg 720  
gcccacaccg agcacgcca cacggagccg 750

<210> 15603  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15603

accattaatt gtgccctgct gtgaaaatat tttctctttg tgtgtcgtcc agtggctgca 60  
tctgactttc caagaacctt cttaccatta gcatgtcacc ttgcatggct tnnctctcaa 120  
gctctttttt cacgtcttct tcttcactaa tttcagaata actgggtgact ttccatgggg 180  
accggacgaa gttgcttctt tcttcctgga gctgtnggtc cattctagtn gaaattgggt 240  
gatgaattcc tttgtgctgc aactttctc ttcacctgct gttcaccgg actgtctatg 300  
cagcangcat ccaattcacg tcttntgtat tcaacatata tctatggagg attagacatt 360  
aaaaaagagc cttgtgcctc acttctttct tgtggtctac taagcctccc attattgaga 420  
ctctcc 426

<210> 15604  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15604

tgacatgagg aagtgttgaa ggggtgaaact tcctgcttnt attgttgacc acagagtggg 60  
acctggagat atgtcgcggg ggtcaggaga ccttggggac atcatgtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240

agcaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatatgt gagatgtggg 300  
 ctctggtaat cgattaccaa ggggtgggtaa tgcattacag agcttaaaaa tgaagacagg 360  
 aggctgagat ggtctctgta atcgattac 389

<210> 15605  
 <211> 105  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15605

cgagtaatta ctctatatta gtggtagtta gttagttact ttcatttgta caaacagaaat 60  
 atagtactta ttgtgcaagc ttcctccttt ctctcttttt ctctc 105

<210> 15606  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15606

tcttcccttt cccatgaccg gcattgtcaa agatcctaca catgttggtc aggtgtacaa 60  
 agttatggat accatgacaa ttcaccatca tcttcacttc tagttggagg ccattgataa 120  
 acttcacaca tttagacctc tccctagctt cccctgata atgaggaaaa taccttacca 180  
 ggttctcaaa cctagctgca tactctgcca ccgacatgct cccctctttc gactctaaga 240  
 actccatctc tttcctatnt ttcacgtctt ctggaaaata cttctctaga aaagtgtgtc 300  
 tgaaagtccc cgatgggaca atagcaccac ctgctccctc caaacgtgga cgagtgttct 360  
 cccaccagta ctctgcctca tctgccagca tgtgattaga aaacaacacc tttttctagt 420  
 c 421

<210> 15607  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15607

nngttcacga agccatcgtc aatatgctca ttttggtatt tcttactggg ttattatgca 60

tggaattcat ctcttagaag aatatgaatt cagagaagct tgattttcttc tagtgtaccg 120  
 gcccttggtc tctggtacct aagtttgcta cgaatagcac aggtgaagcc acatattgcc 180  
 ngagaacatt gngaaaagtt cctcggccaa catacatatt taaatttatt cctatataaa 240  
 ataagactca tacgtnttat tttcttcta tttcttaaac ttttctcact tttttttttt 300  
 attttaccct cagatcaatt aaatgataat acctgctgac tcactctgag gagttaaact 360  
 atgattttatc cgaccaccca ctaccagtcc aggttcacaa acctttcttg tgg 413

<210> 15608  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15608

taatcttcat gatataccaa gaacaagaca tactggaata ttggtganaa ataaaatcat 60  
 aatctaaaag ccttatggaa ctaacctctg aagcaggact aaaatgtgtc ccagtacttg 120  
 ggaaacaatc tctacatctg atttatcaac ttggtgcct atgactgtat acatgaaaaa 180  
 agtgattgaa aggttttagca aatgtattta ttctattaat caatacacag catanagcaa 240  
 aataaatntg tttataattt aaccaaacat agaaggtaca attagaatag tggatcaaat 300  
 ggaggacagc ctgataatat tgttcaccac aagaaatttc attgcaagat tattggaatc 360  
 aaataaatca actcatagtt ntaactataa cagctaacaa ggtcaaaata ct 412

<210> 15609  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15609

gtgcactttg cactcactcg accgggatct tagagcactg cagcttcagc cttacaatgg 60  
 atgggttttg catggaaaat cttatttctt atatataacc tattagaata atgatgatac 120  
 aatgttttga cactatatat ttgtntgcat ttttaatttg ttccactaat ggaagttgat 180  
 gtccctcaca ttaatgtcac cattgaagag cccatgttgc tctatgtcgt gctcatttga 240  
 cttttctaata tatgtgatct tgatgccttc aagaattata tatattttta tgtaaaagtg 300

gtttttggat cctttgacca ttatgacttt actctaattgt gtcataattag ctaataacta 360  
 accatgactg tggatatgag cgtttatggt ttttttagcac tatctttgta attatcaaatt 420  
 a 421

<210> 15610  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15610

tattcaaaat acagggcatc ctagccttat ataagcagat gtttaaacag aananaaaat 60  
 aacagaataa actttcatat ggattntagt cacagcccaa caattcacca ccttgaacta 120  
 acattcatat aagacacaaa ctgcaccctc caagcataca cgaactcaac cctaacaatc 180  
 aacattgagc aagcttaagc agtgatcaaa cttgctcttt ggaactggct ttgtgaacat 240  
 atcagcaaga ttgtgcagag tgttgatctt atgaactttg attcttcttt ctgaccgaat 300  
 gaagtgatat ctaacatcta tatgcttggt tctatcatga taaacctgat ccttggccaa 360  
 gcatatagca ctaaggctat cacagtagat gttagcatat tcttgattaa ttccgagatc 420  
 atttatt 427

<210> 15611  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 15611

actggtttaa gtgggccaga ttctaagagg ggggggggtga tagatatcga acttttcctt 60  
 attaaatcat tactttatta gttgattcct atgcatcttt aatttaataca atgggcactt 120  
 gattgattta gatataatag ggataggaag aatgactcgt tatcggtcgc cacctggctc 180  
 gtcgccacac cgtgaagtcc tctgaatctt cagttaacca gcccctctgg tgaatttcaa 240  
 gaatgccta tcttagagga gaaagacact ttg 273

<210> 15612  
 <211> 397  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15612

ntgatttcct ttgttccgga aacctttctt ttctcatgtg cttccaaacc caatctccgg 60  
gttcgaagac aaccttcttt ctccctttgt tggcttggtt agcatagctt ttatttttcc 120  
tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180  
cttctttatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagtg 240  
ggttaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300  
tgtaagcaaa ttcaacatgg ggtaacaag cttcccaagt ttttaagttc ttcctcaaaa 360  
ctgtcctaag caagttccc aaagtcctat taacaac 397

<210> 15613

<211> 469

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15613

gtctacttga actcactcgt ctcggtcttn agcaccgagc tgcactgtgc tccgccacta 60  
tcatcacaaa gttgtttgac ctatgggcgg ggcacatgat ctacagcttg gtgcatggac 120  
aagactatga acatccatgc agcttgggtg atgaagttga ccatatattc atggatctac 180  
cgtncagca atctacaact ttcaaaagat gccacttcac cgagataatg gcgaccctg 240  
atgttggtat ttgttattca tacaggttct ggtcccactt ctctcaacta tgcacaacct 300  
cccaccaccg tactcgtgat acagtggaca catgattggc catccataga atcttttgtt 360  
aatgctacgg cctnagaant agcaattctt gcttctttca caaacaatcc cacttaatct 420  
tatactactg ttgccttttg caacattcac acttcaatgt tttgttggg 469

<210> 15614

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15614

tgactgcgct tagaatatcc aaagaaaatt ccttcatctg tttttcatca aattttccta 60



agtcttcttt tccattgttt attacaaaac atttgctacc aaaaacatga agatgtgaaa 120  
 tgttttggttt tcaaccattg aacaatttat atgggggtttt ctttaaaatg ggtcttatta 180  
 aagccctatt catgatatag catgcagtat taacggcttc agctcaaaaa tattttggaa 240  
 gaggggtatc atttaataag gttctagcaa tttcttcaa agacctatnt tttctttcaa 300  
 taactccatt ttgttgaagg gttctatgtg cagaanagtt atgttcaatg ccatgctttt 360  
 cacaagataa atcatattct ttattttcaa actcaccccc atgatcactc ctaat 415

<210> 15615  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15615

gtcgcctttg aactcactcg taccgatct ctgactcacc tgcnnngcat gcagcttctn 60  
 nggtaatggg accaatacca ataccaattt tccattntaa ataggatatc tggtaatat 120  
 aaatattgga tattagtatt attggtatta cccatgttca tagactattg gttttcattg 180  
 agaatggtca atctggttcc ttggggaatt tgtgaattat ttcttttgtg ataattgaca 240  
 cttggctggg ctttaattttt gactatggac tacacctgt ggtagtgat agtaagactt 300  
 gaggaacatt tgagaatcag aatcttagtt ttttttaatg attgttgtgt aggtcattgc 360  
 tattgatgta gacctgactt cctataaata agtttttttt ttttaatat gtgtngctat 420  
 atataataat attattatta cttataggtt ctgcgactgt gactgtacat ctaat 475

<210> 15616  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 15616

ctgtccgatg cagcagtaat gatggcccga gttatgtttg ggaaccgtta ccaaccgga 60  
 atgggttttag gcaaatacta ccgcggcata actagcctga ttaatgccca aggaaatcgt 120  
 gggaaatatt ggtaggcta taaaccact cacgccgata taaagaaaaa cttccggga 180  
 aaaaaaacc gtggtcaaaa ctgcgccgtg agacaagaaa gtgaaggaag cccgccctgg 240

cacataagta gaagcttgat aagcgcggt ctgggagacg aagggtcagt ggtcgcgata 300  
 tacgaagatg atgttccgag tacatttgat ttggtacgac cattgccctc tgatttccag 360  
 cttggaaatt tgcgagtgga ggaacgcccc ggcatttact caacgagcat aatgtaacct 420  
 ttacggttta aaagctctat agttgaccta agcttaag 458

<210> 15617  
 <211> 196  
 <212> DNA  
 <213> Glycine max

<400> 15617

atagacttca atgccccaaa ctatgtgtat gtaatgtcaa caatttaaata tgctctttat 60  
 actcctcaca cttcacgcaa ttcaccaact ttcagacact actggaaata tataacatga 120  
 ggtacttaaa cttgtgacca gccaaagacaa tgtacactag aatatctggt aagcttgcta 180  
 cctatatacc caccta 196

<210> 15618  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 15618

aaaacgactt atgtggggat ctctctgaaa ccatttcaga aaattaaata cattcttact 60  
 catttcttat gtgagcacat aaatgaatta tgaagtttta tttatttttg ttacctatta 120  
 acaaaattgt ccacttgata tagcttcagc aagaccgctt ctattttttt agttttttta 180  
 atagtgcctt ttgtgagaaa gtggaaaatg atcttgtttt tatcccaatg aagcgtgggt 240  
 atagcaataa atatagctgc tctaagtact ctatggagag agtgtggctg tcatacaaca 300  
 acaacgcctt atcattttct atatttcttt 330

<210> 15619  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15619

agccanatag acttacctng actnanntnn ctttgatagc ccttttgagc cctggtnenc 60

ctttccttng ttttgaagct cactacangc cttaagtgan aaccatgata tcaccatata 120  
cttaanggaa tttggagctt tggaattggt ttggaataag ttgtgggggt tntgttcatt 180  
ggatacatgn tttgtggcca tgcttcatga atatttnanc nctacttgat gacatccata 240  
ttggtaaagt ttgacatgct aatatgaatg tgttctcaan ggtacagagt acananaaaa 300  
ttattataaa aaaaatcgaa aagaaaaaan acagtaaagt gagtgataag atctaatagac 360  
aataatgata gactcttgtc tatcttatgt taaaaatacc tacttcttta tatctaagct 420  
c 421

<210> 15620  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15620

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caagaatcaa agaatgagtt caagattgaa tcaagaacac ttcaagggtc aaaaggaaat 120  
ttgatttcaa gaatcaagaa tcaagtttca agattcaagt tccaagaatc aagatcaaga 180  
ttcaagaatc aagagaagac tcaatcaaga taagtattaa caagtgtttt caaaaaactga 240  
gcagcacatg aatttttctc aaaacctttt accaaagagt ntttactctc tagtaatcga 300  
ttaccagatt attggaatca attaccagta gcaaaatggt tttcaaaaat gacctttacg 360  
acggtgaaat cgtaaaacca tactcggatg act 393

<210> 15621  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15621

agctaaaagc aagtatctca gtattttgat ggctctacta tgcgcaccct aacgaattgg 60  
tgggacaccc aacaatttcg tatttttcca ttgcctttc gtatgagatg aatcgacacg 120  
aatcatcttg atccatatga gatgatctat ataagtctaa ttcaagggtt tttttggtgt 180  
ttctaataat tgggacgaat taatttataa ttaatgggcc caacaaaaat cacacctact 240

ttcaagttat tagcccaacg ctctaccac tgagctaag agtcattaca ttataacaat 300  
 aaatatggtg gtatacataa caacttaa atctaagtta tttatgggca tgtaatttaa 360  
 ataataattt ttggcaataa ttttgtataa ctcatcaatt attaacttgg ttatgtttaa 420  
 aaataaaaaa attactatt 439

<210> 15622  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15622

ccccattga cncatttga tagactcgt agctattacg cgaccattga atacctagct 60  
 ntagcctgat cgttaagcga tagctcaagt catggctaag cgtgatctat tggcaacaag 120  
 cacaatttct taccaccatt attgaagtct acgacgctta gctccaggct ggcagcttaa 180  
 ccagattcat tacaggcatg tgagcgctaa gtgagtgcct cttactaag cacatgctgc 240  
 tctgtactaa aatgccttat tctaactaaa ctggccagag ccaggcttag tgagaagtgc 300  
 aacattttct aatctgcaga ccttgctaag cggactcacc ctgcgctat actgagtttc 360  
 tgtcaataaa aaatgatgtt gaatttgaaa cgtcagctaa tcgcgcggtat tcgctaagca 420  
 caggcttga gaaacaaacg tacttctgct tagcagacat ttcgctagtg caagtgtcaa 480  
 aatcgcttgg taagtgaact tcg 503

<210> 15623  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15623

tgatgctcat atttangcng actcagctcg tacncgggat actctaagtc acnctgaggc 60  
 atgcangctn gcttctacag tagagacact catgtatctg cttctgtcca tggnggggtgg 120  
 cccgccgctt gtgaactaaa tgctgtatat accacttcac acccaatggc caaccaatt 180  
 aactttgccc aaagtgggca gtggtgcggc ccgccgttct aattgtgcgt caaccttgcg 240  
 cctgctaaga agtgaatact tcttcatgaa aagctcgggtg atcagccgctc ggattacctt 300

gcttggggtg acaagaactc ttatacttgc agaggccctt gatantgccg gaaccccagg 360  
ccctgtggac tttctgggct ataggagcct atatgcccat tttcaacaa taaatggcta 420  
gcattcacta gcacgtgaag ttattcttta gatggatcac caatgcctta gcacggaggc 480  
ggattgagtg ccacaag 497

<210> 15624  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 15624

ttctggttgt tcctggtgcc gagatgatgg tacagcgggt gaaccaaggg ctgaagtttc 60  
ttttggtgag gtagccatgg aaaagcagag cgtttggaat ggtttatcca atttctgaga 120  
actgttgggg gatgctgaaa acgagattat cacgaatata taaatttgaa tgaggaatgt 180  
aaagggccgt gtgaaacaac ggtcgaatth gctttggttc agtagtgaac gtgctattaa 240  
tgttatgtga ttcgtttggg cacgttcaga tatcagtagt tgctacaatt tctctagcag 300  
aacaatgccc aacttgcccc ttcagttttc aaactggttt gcatccaatg cttttgtgaa 360  
aatatc 366

<210> 15625  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 15625

tcaaccctta tattttaagg cacctatact aagttttgta ttgaggctag tttgtaattt 60  
acatgcatta agtgaatatt tgatgtgttg ctggaaataa tttattgatt gggaacccat 120  
cattatttaa gggaggactt gtgggtcccca tgcaatatta taccttggct gctatgctaa 180  
tgectacaac tagccaccta tgagaatctt gacttgatct tgattatgtg ctaacatttt 240  
taaattaagt attataatat tgaattttgg tcaaaattgg ctttcaattt atttcaaatt 300  
cagtgaatt taat 314

<210> 15626  
<211> 420

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15626

ctctcttggg ggtgaagctt cttcttccat ggcttattct ctagtggatg gtgtcttctc 60  
tcacctcttc tcctttatct tctgctataa ttccatgggt gaaaatcacc attgaagaac 120  
ctcattgaaa ctcaaagatc caacctccat agaagcttct taagcaagct tccatcagta 180  
ggcttatttg gctagtggct aaaagaaaaa agggctaaat catctcaata aatgcatgtg 240  
ccacaaggaa tgacaagaaa agcaaggaat aacctagagt aatctagcac gagggtgaaa 300  
tcacacatta tagaacatga atgggtataat gcnatccatc ctacaaatcc ccaaaaaactc 360  
acaaggaagt tattcatcac acatgatcca cctcacaat ttcaagctta tttatcactt 420

<210> 15627  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15627

ntgcattgca ngcttgtctg nnnccgcatg gacananggg tgcattatta ctatgttagt 60  
ctctacnggc tatcaggctc tttgtcttac agacagcaaa aaagaatgggt tattaccgga 120  
taccactcn ggtattctcc gcccgtcagc gtgtctccaa tgtcagtatg acagatcttg 180  
gagcgcaaaa tgacgtaatt cccgtggcac agcttgtcgg cgcgatgaca aaagcgccaa 240  
gagatgcagt cttccatgct tcagcatttg tctacagacg caaaangaat gttttcggat 300  
accctcggtt tctccccctc acgtgctaaa tgcataatcc atctgtgacg cgaaataacct 360  
aatctcactt gacggcttgc ggcccatgac aaggcccaaa acaatgcttt tcatgttt 418

<210> 15628  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15628

tggcagtatt acaaattctca atatacgtag ccaagtgtga gtatggatcn ttcattggta 60

aaccatgaaa caaattgctc tgtattagct atatcaataa aggtgggtaa gttaagtttt 120  
 gtgcttgaac ctctagccgt gtaacacttg agaaatattg cagcaccgaa gtacttgagt 180  
 aatcttccaa ggtcactcat cgagggttgc cttcagtcac gacattggct tcaaattctg 240  
 ctgtttgaga ttccctggat atatgtgaat tagaagatga tgacacacaa aagtgaagct 300  
 cttcaaagat tgatgcaact agtttgcgt gcacaaacta tctttttctc tctgtgttgg 360  
 ttcttctaaa agtggcttca atttctaaat ccaatgaaac caattca 407

<210> 15629  
 <211> 132  
 <212> DNA  
 <213> Glycine max

<400> 15629

tcagctcgac cgggtcctta gcaccgagct gcgctttcac cgtatgggat gagatcacct 60  
 gtgggacaca atggggaccg aacaactacg tctttttaac aaacctttga acggctacaa 120  
 actgggcgga aa 132

<210> 15630  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<400> 15630

gccacccatc aaatgtgagt ttgtcacaca accattcccg gagggtgagg gatgatgtgt 60  
 cttcatgcac cggaagcgaa agcttgagac acaaatcaac a 101

<210> 15631  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 15631

attgtcgatc acattggcac tcaactcgacc gggatcctaa gcacctgggc tgcaacttta 60  
 tctacgcaat gaagtgtgtc aattattgag ataaatttac tctaagctat aacatcaggg 120  
 aaacataact ttcttaagac cacaatgact acacctattg atccttaatg gatcacaaaa 180  
 cactcctaag tatttcctat tctggatgt gcacataacc attaaacaat actccatctc 240

taattctaaa tccatcttga tctcttattc acttgtgcag cttctgttat taagttatga 300  
gataaataat gataaaaaat tgaaagactc tctaaaaaca ctactatga ataataagag 360  
taattggtaa aaaacaaata tttgtgattg ttaaaaaact tattacccca aaatcaataa 420  
ttagtaaa 428

<210> 15632  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15632

ctttaccaac aacttcacca tanaaaatgc ataagaacac attctcttcc ttttcaattg 60  
gaattttctt tgtttgcttc ttcccataa accacattta accaggttat acaataataa 120  
catcgatttg aagataccta ctctccaaat tacaccctaa acctgatatg aaacgtagt 180  
atcaaaagac tagtagtaac tcctactgta tggatatcac atcccaaac tgatcctgct 240  
tttggaat aatatgcatg attaacaaat agtaattccc tcatatacat tcaaagggat 300  
attatactat ggaaaaatat tgatttagta tcctgctttt ggataataat attcttatac 360  
atccaaccct tcacttgaat tatcacttat cagccatctt agttcagtt 409

<210> 15633  
<211> 497  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15633

ttgcatataa gcaactcactc gtaccgggat ctcaagtcac tgcagcttca acctgcgaga 60  
accatattga tcaatgatgg attatctctt ggtaaaattg acgatgatac atgtgttcag 120  
cttatatact atcaactggt gatgcccatc ttactaaca acaatacaat taaactggta 180  
ctggttctca ctgcattac agagaacaag ctgtgcataa ctaaattgat atgctgagaa 240  
tatcctccag agatataatt atgtgtcaat cattgatctt ttgggggggt gtgttgctga 300  
acacaacaat cactctggcc tcacngacac atatcatttc ttgcaggcag agataaaatt 360  
catcacaggc aacgggtcta aatgaattgc aagcattcca ccacatgaac atgattttca 420



cacttatatt gtgagacaga tgctactttt tgcctataaa aacatcccat ttggtatcaa 480  
aacttattac gactatn 497

<210> 15634  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 15634

atgatggtga actatcttct tcatacattt ctgaaaattt acatctgtcc ttttcggcg 60  
ttattgcctg agaattaaga aaataattac cactctcaat aatttgatca gctaacttta 120  
atttaaaaa atctaactgc gtgtttcttg ttttttaaaa tcttgaaatc aagaattaaa 180  
aataataatc atccactcat ccttttttaa aaatgaaaca gacaaaaaat tgactggaga 240  
aagtgttata tatctaaatc cgctgacgaa atttgactaa aaattaaaca gacctgatca 300  
acgtcaatta acggctggcc acctttcttc tttcttcaca tgattagatt agagagag 358

<210> 15635  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15635

ttgcttttga ctccctgccg gtcttaatca ctgagctgca gcttgcccat ttctacacgg 60  
ttttggcata attatacgaa aagccccttt cattcagggg tcgttcttaa ttttcacctc 120  
ctccaggggt ttgtactaat taaccatttc tgggtaatta catactgctt ctttaagcttt 180  
ggggcccaa attggcatgg gcatttggct ttttatactt tcctaccac ttatgataat 240  
ctgctattca cataagggct ctttatgctt ttttcagttt tgttctaaac cgatcaaata 300  
aactatttcc ttgtgctaaa tgggttcaata aacgattttt ttgatatgtt cttactacat 360  
gcactttata ttatttttgg aacatttgca caaan 395

<210> 15636  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15636

tctacttatg tggcagggcg ggcttccttc actntcttgt cttcaacgcg agctctgacc 60  
actgttctcc ctccccgcga tggctctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtttt tatcaagcta gttatgccgc cattgtcttt 180  
gcctaaaccc atccccgggtt cataaccgtt ccccaacata actcggggcca tcattaccgc 240  
cgcatcggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
tgggcagctt accaagatat cttcctcgcc tgacacgatg accaagtgcc cctccactac 420  
gaatttcagc tnttggtgga gtg 443

<210> 15637

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15637

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ccaatgtttc agccttgga tatatttatt gaaatatcat atanggatag atataaggag 120  
tgtcttatgg acctaccatg gcttggaatt ctattctatc aaaccaatg aattcttgta 180  
aggtgaagac attgcaagac acctactgtc cttatactct gccgcagaat agagttgttg 240  
aaagaatgaa ccaaaacttg gtattcaatt canggtcgaa taannatttc tanggtgaag 300  
tggtaacaca tgttatctcg tgaatcgggt atcgtccact ggcatagatt tcaagatacc 360  
tattgaagga ttgtctaacc aaccttgatg atactcatag ctgaagtgtt tgagtgtcca 420  
ccataatatc atgtatgaga aagtaagctg gaaccctaaa gccaaaaaag tgtcttattg 480  
cctattgaaa ggagtcaaag attataatct ggtgccct 518

<210> 15638

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15638

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 ggtcgtggcc aaggaagatt atgaagagga gatcgtgata attntgacaa taatgaatgg 120  
 aggagccatc aatccactag aagttgtgga agaggaagag aaagaggtag aaacaattat 180  
 gaaaaagcat atgaaaggag gtatgataaa tctaattgtt aatgttttaa ttgtcataaa 240  
 tatggccatt actcttggga gtgtagaaca aatgttgaag agaatgtcaa tcttgttgat 300  
 gataaagaag ataaagaagt tgaagagcca gcactactac tatcacttaa taatgggtgag 360  
 aaagaagaca aatgcttatg gtatcttgac tatggagcaa gcaatcacat gtgtgggatgc 420  
 aaagagaaat ttgtggaact tgatg 445

<210> 15639  
 <211> 87  
 <212> DNA  
 <213> Glycine max

<400> 15639

ttcaccactt cgctatctgt tggggagttg tgcttggtag gctaagacgt tgagagactg 60  
 ctctaagcag tgtgtaatta gtctgga 87

<210> 15640  
 <211> 210  
 <212> DNA  
 <213> Glycine max

<400> 15640

ttgttctttt ataaaatgag aagttctgaa ctcatcatgt tatctaagaa aaccttgggg 60  
 aggatccaag tgctccgac atccatttgc atactcatgg tttgggggca tactcaccg 120  
 tggttatttc tttaggaatt tcattcataa ctaaaaaac accaaggcac ccctataaca 180  
 ctccatccaa aaaaatggat aatgaaaaag 210

<210> 15641  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<400> 15641

tggcactcac tcgtccggga tccttaagtc actgcggatg cgctgaaaga ttaaattctgt 60

ggattctgat cctgcaatgt atgttcttaa tggaaatctt gtgaccgttc tggatatctt 120  
 gggatggcca agaagtcac atgcaaaacc atggaaattg aatggtggct gaattatacc 180  
 tgatgctgac gtttt 195

<210> 15642  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15642

ntagccttaa gttgttctat gttgcttatg ttgttgctcc ccctatctct aatagtttga 60  
 gacctcagac aaagatgatt cttagtggtc cagcaagagg tactattatg tctaagagcc 120  
 ctaaggaaga aattgtaatc attgactcta tagaagccac tgattatcag agtcaccatg 180  
 atagggtctt ggttcaaagg aaagttataa tggagccaga tactcagaat gtaattctag 240  
 cttagaataa actcttgact caacaaatag aagccttaac aaaacaaata ggccaacttc 300  
 cttaataatt tgagtagggg ggatcacaga anacatacca agctcatcaa gtacaaaaag 360  
 ttct 364

<210> 15643  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15643

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 cagctcacac atgtcttctc attgcttctt ccctatcttt ttgatgcaat ttgaatggac 120  
 tccaactctt cctgcgttta gatgtctcgc anaagagacc agatgccaga gcctgctcaa 180  
 gccacaagtc aaatgcctct tcttcttctc catcatttca gcatcaaat cccacgggaa 240  
 tctacttcag ttgcaacgtt ggcttttctc caagccaacc atgtttacat ggaaactcgg 300  
 tcgatgggta tatggcctgc agccattccc tgcagaaata aaaaagctgt cggttcataa 360  
 tggagtaaaa atgatgcttc ttatcataat tctctatttt acacagaaat accactacct 420  
 acataagaga caaaaatgga cccactgaat ttattgccag ataacaaat tcctatattt 480

ccctctgata aaggtaa

499

<210> 15644

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15644

acttcttggtg caccatggcc aacttttcaa tctttattct ctttttattc tacttttctg 60

atttaacttt tctttatctc ttcttcctac tctttagaat agaagtgtgg cattgtatct 120

gatctccatc tcttcgcaa actagcatcg caatcaacat tggaatcagg gatggaggat 180

cttggcgact ttctctgtga ccaccaaac tttgtgtntt aagtctcaa cgccgtgtgg 240

gaggaataag tgggtgaaaa aacggagagg atagtggaga agaccctca 289

<210> 15645

<211> 63

<212> DNA

<213> Glycine max

<400> 15645

tacctggtag gagtgtgata gagtatgagc tcttgatgat aatttcagaa aggtgatgta 60

ctg 63

<210> 15646

<211> 328

<212> DNA

<213> Glycine max

<400> 15646

gaatgtcaat ccttaccctc tgttatctga aaagaataga agggaaattt ccaatctata 60

aaaaataaac agagaaggaa aattcccaat gaaagagaat aaagaataga aaggaaattc 120

ccaatcaaag agtgggagaa agcaaatga aaagaaagaa aattcccaac ctaagaatgg 180

gaaaagtaat aaaaaaagaa gacactcccg gcaaagaaac tataagaaat gtgcaaaagg 240

tcttttgacc agacaatatc tgaacaatac acaatttgtc ccacatgaac acaaaaggaa 300

tgagatgaaa ccacgaccta aaatggtc 328

<210> 15647  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 15647

tgcctttgca ccactgtccg gtcttagcac gcgtagcttc ttcaaccatg atctttgttc 60  
 gaaccatatt ttgcgccccaa gcctattaca aacctatata accagcaaca ttccgtatat 120  
 tactgctgtc caaatgtgct gatacttgag gtacaccttc ctaccacccc agatacacta 180  
 cgcaatttag tggaatatat gaactcaatg gagcggttcag cggcttgaaa aaccactcaa 240  
 atgcacattg ccacattttt tagtgtaag gtgaccetta tttgctattc cacaggctct 300  
 actttgtgat caaatttcaa atttgaaaaa cttgtcttca tgccaacaga acttttaact 360  
 tctt 364

<210> 15648  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15648

tatctnggat tcgaagagga atatgatctc aaatgtgtcc tcagagttac caaggatgtc 60  
 attgccttca ctagaagcgt atctttgcat ccataaactt gccttctctc agagcctttt 120  
 actttcctaa ggacgaaaaa ttgctacatg atacattggt gttgaaatcc ataattcggt 180  
 tatctatttg atgagatttt cttgctgcct aattgtgtgt gtgtagttaa ttaattattg 240  
 aattcatgca atttaattgg tctagtttag gaatactatg tctaatatgc tctagccttt 300  
 ctggcatgtc att 313

<210> 15649  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15649

ntgactaaac caatggcatg gacactggaa aagaatttac tctattntca aaattgtact 60  
 aactgtntc tctgtctcan ggaattatgc caaggaccaa cggtacaggt ggcttctgtt 120

tctttatttt attcaccaaa ataacttgag tagtttgaat gacaccagcc accgaaactt 180  
gacctttgag aacacatctt gtcacaccac taggattcgc ctactcagca ttcaaaaagat 240  
cttcattacg tgcctgtcat tcattatata cagttcctcc attcattgtg tctaattctt 300  
cccgacgaca atagtctcca ttcacttccg gcatatatatt ggcaattgga tatttgcaag 360  
gttcaaagga gttgctngcc accgattcat tgtgcaaccc gcttactata tgtaaaaagc 420  
acttccaaag tccaaaccag gtcaatcttc cttatggaat taaccttttt tattgtcctc 480  
g 481

<210> 15650  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15650

tcatattcca gcaaagcata atcactgtga acgatnaaat tttgctttca aataattcaa 60  
gtaattacat attcgagatt cacactcaac tatagatttt aatagaacaa ccttacatat 120  
attaatacac atgtttgggc gtaaaagtga ctattattat tattttaaat atataaatca 180  
aactaaccat gcattgatnt gaatgaatcc caaagttttg tatgagtgc aacaaagcct 240  
taattgaaat gcttgatttt gaaggggtata tttgagtgtc aacgtcaa ataatntataa 300  
cacnattgac cttttttcaa ggggttaatta tctnntttta tccttatagt tgcaacaact 360  
ttctttttga ttcatacaag ctaaaacatc tta 393

<210> 15651  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15651

ttcttgaccc ctttggcact cactcgaccg ggtcctaagc actgagctgc agctttatca 60  
ggcattctgg gataactctt cttctgggta tccctagtgg atggtngcct cccctctctc 120  
ttcttctttg ctttctgctg catctccatg ggtgtaaaat caccaattga ggacctcatt 180  
gaagctcana gatccaacct catagaagct ctacangcaa gcttccatca ngtggtaatc 240

agagcaccaa gagcttcaag taggtgctcc tttnacctc ccataatnnt ttgctttacc 300  
 ttctctccca ttgtgttctt atttttttct catgatctct ccatgcttgt ctaatgttgt 360  
 acatgatctt taagttcccc gttaacttgt taaactaatt tattttatgg taaattcttg 420  
 tctgtcttac ctgattgggtg attaggtctt ggag 454

<210> 15652  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15652

tatgtgggtc tggaattatt gatcatcata tgtgataatt gactatnttg acacacaaag 60  
 aactcctaaa gtttccagat gcaatctaata cgattaccaa atgtggtaat cgattatctc 120  
 aagccacaaa gtcttcttct tgctaaaact agcttatgta atttattact aaaactggta 180  
 atcgattaat ccgatgatc ttgccaaatt tcaagtagaa gtgagttatg ttgcttggtc 240  
 taacactttg taattgatta ctaaactntg taatcgatta cattgtgttg aactcattgc 300  
 ttctaagaaa ctttgagacc aattcattaa tctaccttgt ttgctttcta ctaagcatga 360  
 atataagaga ctaaatacacc catcatgcct agtctaaaaa catccaatan taatgccaca 420  
 tctttt 426

<210> 15653  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15653

actcgccggt cttagcacga gctcagctat taagtgttc tagttaaatg acttaaaatt 60  
 caagtctcaa gtacatataa agggcttaata anataaaatc tacgactact atagctatct 120  
 ataacatatc attctcacia ctctttgctg gtatatataa tcttgctttg attgattcaa 180  
 actgttcgcc tcaatcacca acgcggagta attggagaca agccgtagat atagataacc 240  
 tggatggcat actgggggaca accttatggg tcttcgttat tatcttacat tta 293



<210> 15654  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15654

tggattntat gatagggatt ttgccgagat attgatgata gaaaaagtac ctcccgattt 60  
 ggatttntta tgggtgatcg ngttttacat ggagttctaa gaagcaaggg cttgtgacac 120  
 tttctacctg tgaagcccaa tatgtagctg caacttcttg caccatgtca tgccatttgg 180  
 ctaaaaagat cgttggangg aacttcaatt gtgcaaaagg anagcacaaa gatcttatgg 240  
 tgataataga tctggacaag agcctggcaa gaattccggg gttccatgaa cgaagtaagc 300  
 ttttagatac acggatcatt tctttgaaag tctattccaa gaaagaagtt aattgcacat 360  
 gtaaaaactta aatcaagtgc cgatatttca cccaccctc acatttgaga ttttcaaaat 420  
 agcaacccaaa cttgtggggc g 441

<210> 15655  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15655

tgtttaagag tggttaacac accctacaac tcacttgtna ttacataaga ggaacccatg 60  
 tttcgcatga atcccacaag atgctcacac accacccaat tggaccgatc catccgaatt 120  
 ggccttcacc caattattct catgcaatcc taatctctta gacactccca ctttcatcaa 180  
 tagtgaacc aaattgcgaa gaacttaca caccaacaac ccacctcata gcttgcacaa 240  
 ccacacttgc aacatcaaat tgcaccatct taaacacaac accattgaac tccatatata 300  
 ggtaagcata acttgaata aattacacca agaaatattg tcttgacccc atctgtatcc 360  
 atagtattag gctcaatcac tactataaaa tatgcttggt acatcgacta 410

<210> 15656  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 15656

agcttcttat cctatgctca tcttggtggt gaagctcctt cttccatggc ttattcccga 60  
gtggatggca cctcctctca cctcttctcc tttgtcttcc gctgcatctc catgttggaa 120  
aatcaccatt aaaggacctc attgaagctc aagatccagc ctccatagaa gccccacaag 180  
caagcttcca tcaagtggta tcggagcaca agagcttcaa gtaggtgctc cttaaaccctc 240  
cattaatfff tttttgcttt accttctctt ccattgttgt ttcttcaatt ttatccatgt 300  
at 302

<210> 15657  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15657

acgataaata aaagatacaa aacaaagaaa gaagagaaaa agaagagaaa taatttanaa 60  
ttntnttgag acattgagan caaannttat ngaaaagcan naaagggagg gnntgaagag 120  
aaaaagggag aaaagaaaaa atttttatat ataaagaaga aaaagaaaag gggggggggg 180  
aaaagaataa acagagaaat aaagaaaatg aaaagaaaaa gaaggaagaa aaaaaagaag 240  
atgaaaggag gaaaaggaag agagagaaaa gatgagaaaa aaaggaaaag aagaggaaaa 300  
agaaggagaa ataaaaaaaa aagaaagaga aaaagattaa agaaaaagga gaaagagaaa 360  
agaaaagaag aaaaagatag aaaaaagaa aaaagaaaaa aagagagaga gaacagaaaa 420  
gtaaaaaaaaa aaaagaaaaa agaaaaagaa aaggaacaaa agaagaaaaa aaa 473

<210> 15658  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 15658

agcctaccct atttggcact tcttggaact ccattgttcc taactcaatc actgttaaag 60  
gcctgctgat tgagtacaaa gtgactcgca actattaggt gagtaattaa tcaactcttt 120  
gcatgtcata ttttaatatc atagaatatc ttatattgaa tttcatgttc aatccacgaa 180  
gattcgagta ccatgttctc atttatgaaa tctgcaggat gcacccatct gaacatggaa 240

aggaata

247

<210> 15659  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 15659

agccttgagc tttttcaaac gacaatgaat ttttactcgg atgtgcgatt gagtcacgta 60  
atatatcgag aagctcgaaa tggaatacca ctactctgag catattcaaa cgacaataac 120  
gttttactcg gatgtctgat tgagtcctcat aatttatcgg aacgctctaa atataatacc 180  
caagctttga gcatattcat acgacaataa ctcttttact cggaagtcgg attgagtcct 240  
cttatatatc cagacgctct atattgaatg 270

<210> 15660  
<211> 525  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15660

agtataacctc ggatacagac actaagcttg taagctatgt ctagctnacc cgatttgctc 60  
accctttgaa gttgatggta tggctgtgga gtctcacttg tgtctgtata gatacanaac 120  
aaaaggccta tagctgattt ctctgagaga ttgggaggag ccagatngaa ctatcgcacc 180  
tatgaacaag agttctatgc cattgtgaga gctcttgatc attggaatca ttatatgcgt 240  
tctaactact ttatatagca ttcagatcat gagtcatttg aagtatatca atgggcagca 300  
gaagttgagt ccaaagcatt gctacatggg tcgaatctct tccatctttt aattactctt 360  
ctaaatacaa cggatgttag agtaatgtgg tggctgatgc actctctang gaggtatgct 420  
tcaatataca ttcttttacac tccgttagct cggtttcgag actttgaagg attataataa 480  
acacaatgtc ggtattgggtg aaatacctct aattgtgaga aggat 525

<210> 15661  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 15661

agcttgccctc tattatgtcc acgaaggatt atgcgggtcga aggaactatt tccgctcctg 60  
agtatgacag ttaccgcttt aggagcgcta tacaccagca gcgcttcgag gccatcaaag 120  
gatggtcatt tctccgggag cgacgcgtcc aactcangga cgacgagtat atggatntcc 180  
aggaggagat aagtcgccgg cggtgggcat cactattttac ccccatggcc aagttcgatc 240  
cagaaatagt cctcgaattt tatgccaatg ctttggcaac agaggacggc gtgc 294

<210> 15662

<211> 82

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15662

acctnctcct ccatggtnga tacttcatgg tctccatgat ctctacatg tctggcctaa 60  
tgtttaacat gatcttataa tt 82

<210> 15663

<211> 245

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15663

naagctnttn ggttctgtat tgccataaaa atntgcaatg tagggcggct atgtgtcttc 60  
gtgcgagctc aaccgaagtt gtatttcagc cgacgcccgc atattgtctg ccatgaaaac 120  
attatcccac cttggcaaaa aataacatga ttcaccggta tgacagaaat aatgctggcc 180  
ttagtcggtc atgatagatg accgatcgat gtctaaaata gaagcatgac cggattacgc 240  
cgatc 245

<210> 15664

<211> 269

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15664

agcttctcag ctatcttgct tctcactag cagntgctag tgctatcatc tcacattcca 60

tagtggactg agctaagata gtctttttct ttgacttcca agagacagcc ccaccagcta 120  
 tgctaaatat atagccgctg ggtgctttgg aatcatctga aagagtgttc taatctgcat 180  
 cgctgtatcc ttcaagtaca gcgggaaacc ctttataatg taatccaaag gctatgggtc 240  
 tattaaagtg cctcattacc ctttcaata 269

<210> 15665  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15665

agctntctta tttttctggt tntccaaacc ttganaacaa aacttgtggt attcatcttt 60  
 ntcattccct tctccctttg ccaaaaagaa ttcgccaagg actaaccacc tgaattctnt 120  
 ttatgtctct cttctccctt ttccaaaaga acgaaagact aactgcttga attcttttgt 180  
 gtctcccttc tcccttgtca aagaattcaa aacgacacaa tctaagaatt cttttgtttc 240  
 ccccttcaca aagtttcgaa ggactaactg tctgag 276

<210> 15666  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15666

catcaaaggt aattgaaaac ttgggaagaa tggttacctc atgttgaatt atcttataat 60  
 anggtagcca acactaccac ttctttttcc tactttgagc ttgtttatgg ttntgatcct 120  
 ctatcttctc ttgatttaac tcctttacct aatgattctt ctattttgag taaagatggg 180  
 atttctagag ccactcttgt taaggatctt catgaatggg tgagaaatca aat 233

<210> 15667  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15667

tttgttgcaa gcatnnggtc tatctaaaga gtggagtctt catgctgcaa atcgatgggt 60  
tctgagtgga aaattctaca ttggttaagc atgtaattct gcagcatttg cgaagcacat 120  
tcaaattaat tgaagtcacg tacgagcact gtagctctta caaaaataag cactgcctcg 180  
tatttaatgc acaaa 195

<210> 15668  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15668

cggtagcttg tgtagtcttc cttacgtagt tcccaggagg catttgactc gtatgggaac 60  
ttgctggagg tgtngccatg ggtcctatcc attattaana taagaatcag gaaacacata 120  
gtaattacaa caacatgtaa gtatcanatt gtanataagt agaattgtaa aatgtaaaat 180  
agttaatttt ttgagttaaa cattatttga gtatatacca ccgttaaata gtcgtatact 240  
cccataaaca ctcatcatga atcgtagcaa ttgcatgtac atcattgtct tcattttcag 300  
catctatgga aggcactctgt ggggaaaaag tgggcatgtc attaacatca agtg 354

<210> 15669  
<211> 267  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15669

gcccgttggc gtgcgttcca aacgagccct catggacttc ctgatcatg tgatttgcct 60  
ccctggcatc cacacaccgc atgagtgtca tgtcctgatt tctcttatac agtatgcttc 120  
cactcatgaa gaaaccggct gccaaccttc tcaatgtcct cttatcattg tcggcaatct 180  
cgggcgggta ttctntgctt acgacatata gcttgatgtc gaaataccaa tgctctccgt 240  
ctcgttcttc ttctacttgg caacaac 267

<210> 15670  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 15670

tcactctgtt tccactcata acaccatatt cttactgtct aaccctaagt taaccctacc 60  
cttcatctct aacagttttc cataagcaat ttcagcacat aaacatcaca agcatcatca 120  
tataaaaccc taaaacagaa tgggttagct tgactcacac caaacatggc aagttcaaca 180  
tgctttcaac aaattccttc atagataact atcatgaagc agaaacctag ctaaactacc 240  
catcatatct ccctataacc aataccca 268

<210> 15671

<211> 531

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15671

agtgtgcag ntctnctan ntgcaaaaac anantantna agctttataa gagcaaaaac 60  
ccccctantc atnntncaag atatgccatg tgtaatatng gacgcatcaa caangaatct 120  
cttctctttg tctattngnc angcaatcaa nggggcanga cacaccagat gattataatg 180  
atggatggct caaattctca ccacgtaaaa taatcacttt caaattgagc ttttcaaact 240  
atcatgacat gtatagaaga atccacgatt tcaacgcaca aaatgtcaag agcttctatt 300  
ttcaaacaat taccattttc ttgaacatat cctataattc aaagaaaaac atgcgaaggc 360  
gaacttgctc acaaaattga cccacatatt taactaaact ccgacaagct aacaacatta 420  
catatttaca gaactttaaa acctgcaaaa ccaagaacac tcccccata ctaaacaccc 480  
attgcctcat gtttccattg aataattaca accttactca tcatgagaac g 531

<210> 15672

<211> 302

<212> DNA

<213> Glycine max

<400> 15672

agcttaagat gatgaagaag aaggtaaagt tttgcgggaa tagtgacttg tacagatgag 60  
tcactattta gttttatatg aaaggggtgaa gggcattttg gccctttcac ccgagttgct 120  
gggtgtctca acaaaaatat tgggtgcccc acacaactct cgtgggttcgg atggtttcat 180  
actggccaag cttaaaatat gagctaataa cttttttgtg cctcatgact tactaatttt 240

gtccattat ttttgcacta tctgaattat taagaagtca aatgagtttt tcttctatat 300  
at 302

<210> 15673  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15673

agcttccatc atgtggtatt agagcacaag agcttcaagt agtgctaaat gttgtttctt 60  
cattaatgat aaaattaatg aagaatntaa gtagcacaag aactccttaa acctccatta 120  
attttcagct ntaccttccc ttccattggt gtttcttcat ttttctccat gtatctcttc 180  
acatgtctag tgctaaatgt ttttaacatg atctttttaga atttccactg attaaacttg 240  
ctatagaagc tagattttat tttttatggg tcanatttct tgttcttgaa ccataaa 297

<210> 15674  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15674

natgtagctg tcgtagttac tgcaactcna agcttgctaa gatgattcct aacgagccag 60  
agcttaactt cacacatctc tttataccta acctcacncc tgatatgaga ataagaggct 120  
agnctcacac ccctataata gctaagctca cccctatgcc aaaaaacatg aaaatacaaa 180  
aaaaagtcct tacttacaag actaccctga aaacccttga atacaagggc taaaccctat 240  
actactagaa tgggccaat acaagggtcca tatgaaagaa aacctattct aatatttaca 300  
agataacagg ctcatactta cccatgggct caaatctacc ctanggctat gagaaccctg 360  
gggcctcctt ggatctctgc acaatctact tggagcttct atcaatgacc ttgnggggtg 420  
gatngcatac tatgtnggtn ataattatct aataatgaat ttgacaaaaa atacatgttg 480  
tatgatttga gacatggtag act 503

<210> 15675  
<211> 285



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15675

agctttgcag atttgggtctt cgctgggtaa aggatcanag tgggtttgaa aagaggcaaa 60  
tttaatcatc tgcttagacg aattaganaa ctggggcaaa tgaagaaggt gagaatgaat 120  
gagaaacca tgctgcgact gtcgttccta aatagaaaat cccttaccag ctcaacanac 180  
atcattactc agccaatatc gaaccttctc attcctcacc acccaattat ccataaaggc 240  
catccctaaa tcaaccacaa agcctgtcta ccacacaacc aatgc 285

<210> 15676  
<211> 277  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15676

tttatgcaag ctgcatgtta tgtaatgatc atgagaatng tcatgttagg tgcttttgct 60  
atgctgttaa aacttgccct gggtctgttg gtcgagccaa tgggaaaatt gtggttaatt 120  
ggatttcttg atggtttgga ctatggcttg gttggcttta acgagtttga tgcttccttc 180  
aattaatttt atagtacacc tgttattttc tcctgtctat ctatttgcac atggagtgtg 240  
gaatgaagtc tggatgattg cagaatagca atataat 277

<210> 15677  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15677

agcttgtgaa ttgatagacc atnttgagtg acattttaca tgagtgtttg tgtcaatttc 60  
acgtattttt cttggcataa ttacggttta gatctagttt catgtgcata aagtataaat 120  
gtttgatcaa gtgaaagagt cggaatcaac acaaattctat anagaaactg atgactctac 180  
actataccat ggccatagta ttgtaccaca atcatggtga ccacaatgcc cataataaga 240  
tcaccactac cctaaagatc aatgcctacc agttgatcac aatcg 285

<210> 15678  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 15678

tttagcttct ccttcatttt cctataaata agggaaggat ggaagaacaa taatgttcaa 60  
 tcctgctggg atctgagatt cacttaaaaa tactcataaa aattatcttc gtgaagaaaa 120  
 tccaagccga agcgtttccg taacgcttcc gtgacattac cgtgggtgat tctgcgaaga 180  
 tctacaaccg tacttcgtcg ttcgtcgttc gcctctcgtc gttcgacgat cgttcttcgt 240  
 cgttc 245

<210> 15679  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15679

tgcttcactt atggtaagga ggatntntcc acttcttgaa ccttaacctt tttgtctagc 60  
 acaatttatg tataaaacaa gtataaggtc tttttagga ttaaagttac tttggatatg 120  
 tnggatcaag tggcctctga ataattataa aagagggttg aattaattat tactgaacct 180  
 ttactaatta aaaatgtacc cttcttatgc ttttactata atgttaaaaa gtaaataaca 240  
 taaatgg 247

<210> 15680  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15680

tgtgctgtac gtntttacgn gacctanat actcagctga tgactgatca attgattcnn 60  
 agaatttgtg atacaaagat atgacaaaaa ctcatttttc ttatcttctt ttgtttacaa 120  
 agatgatgat ctgcgaatc aaagaatgag ttcaagattg aatcaagaac acttcaacgt 180  
 tcaaaacgca aattgatgtc agaatccaga attaagtttc atgattcaag ttccatgaat 240

caagatcaag atccacgaat ctagactcaa gagaagactc actcgagata tgtattaaaa 300  
 agttgtctca aaaactgagt ccaccataat ttgtctcaaa acctttttcc aagagtttta 360  
 ctctctggta tcaacttacag atttttgcat cgataccatt gcaccatggt tcaacaagct 420  
 tcacctgatt tacaatgtcc atcgatttca aatttgtatc gatccatgga ttgcttccgt 480  
 tcaactgggtt gaagtgcg 498

<210> 15681  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15681

attccttgac acaatctagc tatgtctcta gaggtttgtg gatcgactac attntcttcc 60  
 ccaacctaac catggattgg tttctttact tcacacatta aatttattaa tttggccttt 120  
 agtgattaac caaccatatt tgaaaagata atacttgtaa tagaaatatt atttatgtgt 180  
 ataatatagc atattatttg tatttaaaaa aaaaccatag tatttggttac ttatcaaaat 240  
 attttatata tcatatcctt attaatctta agaagttata ttctcacctt ataaaataga 300  
 agtatattaa tattaattgg attatacatt ntatcccacn ttntaattgc atattctatc 360  
 ttatttttaa aaactgtgat gtactccatc attatcatta tagtcaaaat agggtaaatt 420  
 aaaaatataa taaagtcagt aacatcaatt gt 452

<210> 15682  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 15682

tagctgaatg aatgttcaca ccacatactt tatatgccac cagctgtatt attagcaggc 60  
 tgcaccgccc aagaaacctc tacatcctcc cataacgcct gacacatagc tttatctatc 120  
 atttctttct ttgtttcttg aatacacagc atatccacag tctccatctt tctgaatctt 180  
 ctaatggctg accatttcaa cccctcctt aagcccctga cattgctgga aactatatgc 240  
 attgattcct ttgtctgtct cccctcctta tcgctccttc tttgtccctt tc 292

<210> 15683  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15683

agcttcaggt tgttcattga ctctagaatg ctgcanagaa ggacagagat ctgtatgggtg 60  
 atctgcagaa gaacatagac cacagattct tgcaacaggt gcagacttct tattcatggc 120  
 aagctaagtt actaggttga ccaaggcatc aagttttccc tcaagctttt tattttcagt 180  
 agatgaagat gaattcgtgg ccatctcatg gactcctcta aggaaaatag cattatttct 240  
 tgcattgaat tgttgggagt tggaagccat cttctcaatc aagttcctag cctcaac 297

<210> 15684  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 15684

cttagatgaa cctaattgcag tattcaactt acacattttg gctgatcttg tatttaacat 60  
 aaattataat attatatatt ctttctttat ggtataaatg cttgttcaca acgtggcagt 120  
 gtgtggtcta caacatgaca gtattgtaac ctgcctggca tattatagat gctaataata 180  
 catcatgcag aaattttaat tactataatt tatcgtaac aatattgatg aatacgtact 240  
 tattta 246

<210> 15685  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15685

agcttctcat ttgtacggng actcttcact ggtgatccac cagctgatat gagaatggga 60  
 aactanagac cccaagctga taccctacca agcctatatt aaggaatagt gctggttctt 120  
 tgatgagatc tccttccatc atgttccccg agaggaaaat catattgcaa atgcgcttgc 180  
 cactttggca tccatgtttc agctaacacc gcacagggaac ctaccatata ttgagttctg 240  
 gtgtcgtggc agacccgcac a 261

<210> 15686  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15686

agcttatcat attctattgc actggtggtt tttagacaat gattgattta ttcattgagtc 60  
 tgtgttttta ttgattacca tgtgatatat tcgattactt ctatttctat aagtatttca 120  
 gaagtgatca agaacacttt aatggactac attgaggatc taatcgatta cattgtgctt 180  
 gagaggntc cagtttttgg gatgaacact ttaatcgatt gataagataa tataattaac 240  
 tacttcattg aaataatcga ttacattgta tattttaatcg at 282

<210> 15687  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15687

agcttgtata ctgccatgga agtcccacaa ggaggaacaa tgctgaagag cttgttgaat 60  
 gaaatggtgg tgtgaacgag accggacaga tgaagaacan gcatatgaag cgggccctgc 120  
 aagggttggg gccgcaactg tatgggtacc aaaagcggaa gtggtggcgg agggggcgat 180  
 ggaggcatca tggctggcgg atgtggcacg atcgtgggtg cgggtgagcgt gggatgatgga 240  
 gttgac 246

<210> 15688  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15688

agcttgtata gttctctaatt ttatgggtcat tntgaattaa atttggtaaa taaatcttgt 60  
 tttattgtta acactgtctc tataacattt ccattgaatt taatgatgaa atctgtgcat 120  
 tttcaagtga aaaagaggct aagttntgaa ttgcaaaaaa caacaattgg gctaagctta 180

gtagttgggc taagcgcata tccacccatga aaagcgctgc tacagcgtgc ttagcactaa 240  
agagaatctg gcagagcatc aacatcaaag ccgcgcact 279

<210> 15689  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15689

gtcttgtgaa tagcatcgag tatcatgtta ggatctaggg tttgaggaat ggtatttctt 60  
gccttagtcc aagtgggtgc aagacccctt accatggtgg atgctagcct ttctgggcac 120  
cccaagtgcc tgagaatgct catagaatga tatttgagta gttttccctt tggttacaaa 180  
ttaatgatat cccatatgat gattagggtc actcctctac cctgccccta aatacaccg 240  
tactagagat atgttgctat gagagatgtt aagggtaatg gaaaatccaa taacgcctga 300  
gacgttangt gaatgccaag aacctttgac aacaccaaga ggag 344

<210> 15690  
<211> 273  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15690

agcttatcat ctatcaaact ggagaaagag ttcttgggtt caagacatga gaagcaatca 60  
agtataatgc tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180  
cttgaacgac cccgaactgg tatttcgtca tccatatntg gtaccagaat acttttagca 240  
acacanaatc cttggacatc ggcaaaaaaa tta 273

<210> 15691  
<211> 265  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15691

agctntcata agtgaaatca ggtgcaacca tctccctaag agtcctctca tgagggtggag 60

gttgagccat gttctcagta tgaaagttag tagtggaatg ttcaaaatca gaatattcag 120  
aatcacccctc aacggaatgc atagaatgac caggatgcac actatgcctc actaatctat 180  
gataggttct atctatntca agatcaaagg gttgtaaato acctggattt cccttagtca 240  
tgcactatat gcaacaaata atgtg 265

<210> 15692  
<211> 124  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15692

gctatgggga agtaccttgt catttgagga tccttaattt acgaatctcc attcagttgt 60  
ctagtataaa atttggagct gctccagcac ttaaagtatt tgggttcctac tctttnttct 120  
aatc 124

<210> 15693  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 15693

agcttgccctc attgatgtcc aggaaggaca aggcggccga atgatctagt tccgctccgg 60  
agtacgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgaa gccatcaagg 120  
gatggtcggt tctccgggag cgacgcgtcc agctcatgga cgacgagtat actgattttc 180  
aggaggaaat atggcgccgg cggtgggcac cactgggttac tcctatggcc aagtttgatc 240  
cagaaatagt ccctgagttt tatgcctatg ct 272

<210> 15694  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15694

gaaaaaagat caaaaataaa aaaagaaaag aagaagaaaa aaataaaaca aactatTTTT 60  
ttggcacact agagcancct tttttttgaa accanggggg agttattaaa tgaggaaaaat 120

agaagaaaaa aatatttttt ttaatgaaga aaagaaanag gggggggaga ggaaaaaaga 180  
atataaaaaa agtaataaaa gaaaaaaatt gaaatagaaa gaaaaaaaag aagaagaaag 240  
taagaagaaa ggaaaaaaag agaaaaagaa ggagaaagaa aagagaaaat aaaagataag 300  
gaagagaaaa agaagagata gaaagaagga ggagaaagaa agaaagaaaa ggagaaagag 360  
aagagaatga gagaggaata tgtaaaagag agagagaaaa agagaaaaag aaggagagaa 420  
aagaagaaaa ggaaaaggga ggaaaaaaag aaataaagaa 460

<210> 15695  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 15695

tgtaactcaa taatggaatg gtgggacaca tcacaaatga tagtaccact ttgttaccat 60  
attacaatta gagttttatg ttcaatacga aacgaataga gacgaaaatt ctacgaattt 120  
gattttgact cgacatgatg tgatttgcta aaatgtgtgg atatgatata ttaaataaat 180  
agcatcaacc cgtttttaagg aagaatatct gaaatattag aagacattaa cactaataat 240  
atcgaagata t 251

<210> 15696  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 15696

agctacaaca ttttaccact tccagggtgc tggaactact tctcatggac ttgatggggc 60  
ctatgcgagt tgattgcctt ggacgaaaga tgtatgccta tgttgctgtg gatgatatca 120  
acagatttac ctgagtctac tttatcatag aataatcata cacctttgaa gtactcgatg 180  
agttgagtct gagacttcac agagaataac actgtgtcat ctatagaatc aggattgacc 240  
atagctgata ttctgaaaac agcatgggtt ctgaattctg cgcactctg 288

<210> 15697  
<211> 285  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 15697

agctntgatt gtgtctagaa gaaatcacat gtntgtcatc atcggacatg gggagaatgt 60  
 gaatgtatgt atacatgatt ttgatgatgt caaacaagaa tctaactg ctgcttcaaa 120  
 tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacatag ccctgtttta 180  
 agattcacta tagaccaagc cttgccttaa aacaaagtgc tttcaagaca tgcaatgctc 240  
 tggtaatcta ttaccagatg acagggttga taaatagctg ttgaa 285

<210> 15698  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15698

agctnttacc atttatttnt actctctgta ttattgatta ccagtttact gtaatcgatt 60  
 accagtatca aacattgttt tcaaaagctt tcaaactgaa tttacaatgt tccaattaat 120  
 ttcaaaatgg tgtaatcgat tacaagaatt atgtaatcga ttaccattgt gtcgcaacgt 180  
 gcccttntat gggcgagcga tagcgaagct cactggtgcg ctttccaaag gaggaagat 240  
 g 241

<210> 15699  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15699

agcttgaagt tttatataat gaacctttat ctaagatggt aacagataca ggtgcaatta 60  
 atgatgatgt gaatagacaa acganagtat agttgactct tttgaacctt ataataaggt 120  
 gcttcttgaa ttatactttc atgtataggt aaaagacaac agttgtgcac ttgacacaga 180  
 caagtcaata caatatgtga aattttctaac atgtgcaatt gtgatactaa taatgttgtg 240  
 ttgatattct atcacatgta gcaattact 269

<210> 15700

<211> 132  
 <212> DNA  
 <213> Glycine max

<400> 15700

agcttcttat ctctatgcat acttgggtggg gaagctcctt cgtccttggc ttattcccta 60  
 ctggatagtg cctccccctct cctcttcttc tttttcttcc gctgcatctc catgggtgtaa 120  
 aatcaccatt ga 132

<210> 15701  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15701

tcatgcaagc tttaaatttat attgnaatc ctaatcatgc ttaacctaga tcaccactc 60  
 ttaagcctga aatccaacaa tcacatattc ttggtagaca cttttactta atcacaattc 120  
 acccttggct aaatcgtaaa catttgtaga acttcaaaat tattgagtta aacctcaaaa 180  
 tggattctta atcaaactca tttcaaatta gacatcatat accatacata ccaatcaatt 240  
 tacaccccaa aacagtattt tcaagcatca accacctaaa t 281

<210> 15702  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15702

tttcatgcna agcttttggg tagagttgag ttggtgcttg atgagtgcaa atgcctctct 60  
 ttattgtaac ctcaagtatg tggttaataac ttctgttat atttaatcat cctccctaa 120  
 gaagaaatat tatacataag attacttgcg taagaggttt gtctggtctt tggactaata 180  
 tctctgaatt ttggttaactt atatgcagag acatgctccc tttatatcct cacctatgct 240  
 tggtcagttc aaacttatta cattgngtat attattgtct ctatgtctct at 292

<210> 15703  
 <211> 342  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15703

gtattgatgt ttcacagtct cctatcttac ttaacacggg tgtagtggt gccacatgt 60  
ccaaatcagg aaagctcagc tntgcttcac ggagtcatt cataattcca tttatgtaca 120  
tgatctccat aaccatgggt aatgctggat tatcatcggt tataactcca atcaagtact 180  
taagggtttt tgaggcacgt aaggctgcac ttttggttgt aaaaatattc agagaangga 240  
cagtattgtg agctgcataa agtgcacca tcattccttg atacaatatt gtctccatta 300  
gtttttgtag cttagcattg tagccttggt cttcatcctc ac 342

<210> 15704

<211> 275

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15704

tctagctntt gattggaacg agagaatcag atactcaccc gtcgggagaa ttgaacaccc 60  
acctttgtac ttttatatat cgctgaattg tgtcttatat tattcgcaag gaatatacag 120  
ctctgtaata cctgataatc tatatgcttc tcatacacga tatcaattaa tttgcttctc 180  
ataaaggata tcataaccta cactgctcgt gagcgtaatg aaaaagacta tgtgcatgag 240  
atcacatact cgctgcagct ggatcatcca tcatt 275

<210> 15705

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15705

agctngaatz atgtatagat ccttgattct tcaatggcca ccacaatzg atcaaacttt 60  
gatatzcaatz ttctaagcac cttttcaatc accaattggt ccttaatttg ttctccacaa 120  
cacttcatct ggttggtgag tgtgagaatc ttggtgagat actcaactac tgattcagtc 180  
tcctccattg caagaagctc atactatctt ctcaatgtct gaagtntcac cttctttatc 240  
ttttctgcaa cttcatgact ctttacaaga atg 273

<210> 15706  
 <211> 171  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15706

gaacaacaac attctaagta ttggatcaac ataacataaa tttgagtttt cataanaaca 60  
 atattctaataaatgcttttt atttaagtaa tgaacttcta aacatgagaa aatgtggatt 120  
 gacattatgt tcacattatc atatcaaaca tttaatcatg aatgtagtga c 171

<210> 15707  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 15707

gggatcctta agtcacctga tgcattgcaag cttactggat gtgaacaact tatcattgtc 60  
 agaaatgtgt ccgcattgat tggtaaatct gtatgcgcaa ttgctgagta atgttaagat 120  
 ccaggtagat tcagcatacc ttgtattata tggaatagta agctggacga tgccatgcta 180  
 tatttatgag cttctattag tgctatgcct cagactatat ataatactct atctctaggt 240  
 cccttgtagt cgactgatgt ggtaattcat ctagcttata gaagtgttga ctatcctgtt 300  
 ggtctcatag aagatgtc 318

<210> 15708  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15708

agccttgggt gatcttgtag aataacaaga catgttagat tgtgacttag cactntaatc 60  
 ctcttagcat agtgcttcag caattntgggt acccaaactt ttatgttcag gtttgatccc 120  
 atatTTTTCA aaaaaaaaaat aatgggtgaa tatatgttat taaaatcaat ntatatatca 180  
 cttatctgga gtatgataaa ttnttcaagg ctttaatttta tctttttgtc tcattcatta 240  
 tttatTTTTat ttaatnttat cctcctaata ataaaatctt taatttgatt gcttaatt 298

<210> 15709  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15709

agcttatgac ttataacaa gaganatggt atggaagact gtggactata aaagtgtgca 60  
 catggttcat atacagacta cacaagacat actagtgcga gaactccaag tggtgaaact 120  
 aaggacttcc tattaggata gggttacatc aaggtccaac tctaagtcct tgtttaatct 180  
 aatcttggac gttcttatca atgacacaca aaagataatt cctaattgca tgctctttgc 240  
 tgcatttttt tcttttttat cagcaaaaat agacaattat attaataaag tacc 294

<210> 15710  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15710

agcttgagat gtttgatggn gacccggtgt tgagagaaac gaggatatgg gctacgtggg 60  
 agtacgtgag ctcagttgga ggtgggcaac angggatggt gggtnatgc gcgcattgtg 120  
 gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180  
 taccataa tcctacaagc ttgagatgag gaagtgttga agggtgaaac ttctgcttn 240  
 tattgttgac cacagagtgg tacctggaga tatgtcgcg gggtc 285

<210> 15711  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15711

ttattattct tatcatgttc acattaaatt caacatgatt ntttgcttaa atcctatgct 60  
 tgtgcgcatg aatgccgaca aatatttatt gcttgaatga gaagcattta gtgtgggaaa 120  
 agtactgtca ataaaagtga aatttaattt gtcaatcaag gtccaattgg accacacctc 180

tgtcattgtg aatatggcaa agaaatgaag cttccagtgt ccgttataaa aacagggttaa 240  
 tgttgtttcg ttttcgttgt cttcgttaga ggcataaatt aatgttagag tgtgt 295

<210> 15712  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15712

ttttttcact tcatacatct ttttcttctg aaaatatatt tgaaaattnt aacaacatta 60  
 atttaagtat tcatattaat atagtattgg ttaaaaaatt aaataaacat tgatttgaat 120  
 gcaatttaca aattattaga tatattatca atccttaaac caaataaaat ataaattaaa 180  
 ctacattata ctatgatata tnncaataat tctattaata ttgatcacta ttgctaacaa 240  
 tngatttact gctatatatt tgatattgat accatataat actaattacc ta 292

<210> 15713  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 15713

tataattaca aaatgagaac aacatgtatt ttctcatttt acagaaaaca gattgttatg 60  
 tatagatagt tatcattgat gtataagtac taatcaccta aatttagaaa taattttatt 120  
 ctggatcttt ctctgtcgca ttcttctttt tcttcaacaa cactatcatc aacatgagac 180  
 ctcagaacta caaagttgtc accattgcac act 213

<210> 15714  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15714

agcttatgac gttatgaact caatatgcat tgttatntn tatcaatatt cttttcattc 60  
 tctaattccc atacttgaca tcagacgaaa aattgtgcat cctccaaaat atgtccatat 120  
 gaaagaacac aacacaacta aacatgaaga tactcacgag agtccatctt gaatcgaatg 180

gtgagtataa tgggttgact atatgtcagt atatggtgga gatataccaa tgagaggaag 240  
agagatgccca atgctatacc taatgttctc atgaatgaaa 280

<210> 15715  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 15715

gaatcaaaaag aattctcaca ctgcgtcgtt ctgaattctt tgacaaggga gaatggagac 60  
acacaataat gcatacgggtt gtcccttggt cttttggaaa gagagatgag agacacccaa 120  
tgattcttgc ggtagtctt tggcgaattc ttttggcaaa tggagaatag aatgacaaga 180  
taaatagctc atgttttcaa cggttagata accagaaaac ttcagaaagc ttttggt 237

<210> 15716  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15716

agcttgaatg accatttgat agccatggtg gacatgccaa aggggtgccat aagtaggtag 60  
ttttgctttt gaatttttag acagaaatgg ataaagtaga gggacaaata gtccattttg 120  
aaaaaactta ttgtcaacct ctttcagata tgaatatacc tgattcagaa gggaagaact 180  
tgcatcaata tctcaatttc aattgaaaca tgggtttgat tcacactcca tgttctgaga 240  
aatatntacc atccaaanaa aggagagata 270

<210> 15717  
<211> 126  
<212> DNA  
<213> Glycine max

<400> 15717

actccccctt ggttttgcaa tgattcctta tatgagacat ttgaagatct catatttttc 60  
atatgtaacc aattgcctca taaagaataa ataatttttc ttactaattt atcttttatc 120  
tttctc 126

<210> 15718  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15718

tctgcttggt tcgaggtact taccggtga agatcgaaga acgatgaaga acgaatgaag 60  
 aacgtcgaag aacgattgac acctctgcga aattcttcac ggaaaacgtt acggaaacgt 120  
 ttcggaagcg cctcggctta gattntcttc acggaaacaa tctttccaag caaatcga 180  
 agagagagaa gtgcctaagg ggctgaaccc tntccttctt cacttcctcc cctatttata 240  
 gcaaaat 247

<210> 15719  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15719

agctntgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tcttggtac aaaattcgaa aatctgaaga tgaatgagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaatgnctt 240  
 gggagagagg gatacagatg ataagctgg 269

<210> 15720  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15720

agctatctta agttttctgg ttttccaaac tcttgaaaac aaaacttggtg ttattcatct 60  
 ttttcattcc cttctccctt tgccaaaaag aattcgccaa ggactaacca cctgaattct 120  
 ttctatgtct ctcttctccc ttttccaaaa gaacgaagga ctaactgctt gaattctttt 180  
 gtgtctccct tctcccttcg caaagaattc aaaacgacac agtctaagaa ttcttttggt 240



tcccccttca cacagtttcg aaggactaac tgtctgagaa ctntgtctta acacatt 297

<210> 15721  
<211> 296  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15721

agctggaagc ataatgtaat caggttctta tcatcaaaat aagcagcttt aaggcacaca 60  
tcatctaaga gctaatatca aattgaagct agttataacc cctaagttta gaaaagtgca 120  
cgtatgagct ttaattaagc atcatagata aagtaaatta aaacttcatt gagaaaaatg 180  
ggaaagaggt gaggtgaaat ntataacgaa ccacccata acaaattttc caaccattat 240  
tatggaacaa aaagaanatg agactttcaa aacaatatta tacccttaga caaaat 296

<210> 15722  
<211> 290  
<212> DNA  
<213> Glycine max

<400> 15722

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tctccaactt ctactgttac acctctaaac ccctctgttt taactgttgt ggggagtggt 120  
atatgaaccg tacgggttgg ttgattgtt gtgaaaatca tgcaaagagg aaaatgaaac 180  
tggctgtcta aatggccatt gatgtcatat tctaaaatgc attctgaatt ctgattctaa 240  
agcttcattg tgtactattc acaatgcata tactatgcct gctgtgcatt 290

<210> 15723  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15723

agcttctaaa ctttatataa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatattctaa gaaggggggg ttgaattaag atattccaaa ttacttcccc aattaaaaat 120  
ctatttcact ttctactcaa gttataaatn tccttaacaa tgaacttctt aaatattaat 180

tcaaataaaa acaatttgaa tataaatata aagcaataat aaacaaagga gtttaagggg 240  
agagaaagtg caaactcaga attatacctg gttcggccaa acccttgtgc ctacgtcaag 300

<210> 15724  
<211> 260  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15724

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atattttcct tgtgtgtgga aaatctgctt actaatgtaa ttatgagtta gcaggaatgt 120  
tgtgccatag ttatacttc attgttcttt tttttttttt tttttttaaa ttattaagat 180  
aatagtcaac aagcatgtta tgggctcaga ttcacgaaaa tgctctccat ccttgcacac 240  
anttgtgtga gacactatga 260

<210> 15725  
<211> 272  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15725

agctntacat gtatatactc atcagagtag tctncaactct ccacataaaa gaaagtaagt 60  
ttagttacaa ttcttttccc cacatctttt cctgaaactt tgtatatattt tcgtgtatgt 120  
ttagttacta agaggggaagg atcaagacct gaagctccat ctgtgaaaag tattaataatc 180  
tggagacttc agtgggttttc agcacaatgt ctacacagaca cattggatag aaaggacang 240  
ttcaaatttt cttggctcat acaatgctaa at 272

<210> 15726  
<211> 282  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15726

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tcttgatatt gtcttatgca cgaggagtgt gttaagaata aagatctccc acattgcctg 120

tgaattcaga caaaatactc cttatcttgg gtttaaataa catccacaac cacaattgtg 180  
gctacaatac caatgtattn tgactcatca caatgcaacc gcaaccgtaa ttgtgatcgc 240  
atcatctgca tctttcccga atatataggt tgtttaactc ac 282

<210> 15727  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15727

agctttcaac ttatgtcttc acaaataatc atcacacagc agaaaactaa caaatctacc 60  
catcatatct cccaaaaccc catacccacg anaatcaaag gagaaagaag tccaccata 120  
cctgatattt cgaagtccca ctgtagcca cgcacttcac gactccaaaa atgccctcct 180  
ttcgcgattt ggagcagaaa tgagcaccac aggttggagc tctggtgggg tttcaatgga 240  
gaatggatga gaagggaaaa agcacgtcat gaagatggag agctg 285

<210> 15728  
<211> 266  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15728

agcttatccg atcaaagttc ttgttctgct tcctttgcat tgccttgtga gaatctgcag 60  
cattctaaca ttgctntcac ttctatgcct gtctataggt ggagtcggca tatcaaacad 120  
gatcttgaag attcaaagga atgaatacat gggatttnga taattttgca ggaatgatac 180  
atagagcttt tcaagtatct ttttatttgc acacattntc tgtttgttgt ttgccaccac 240  
caaaccacct gagaggggat gatatg 266

<210> 15729  
<211> 76  
<212> DNA  
<213> Glycine max

<400> 15729  
ttaattattt cacctacaca tcaatattac taatcatgta aatacaaact ccctacacaa 60

actatctggt cctata

76

<210> 15730  
<211> 234  
<212> DNA  
<213> Glycine max

<400> 15730

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tagtcttcga tatagtgaag tgaaaatgtg agatacccag tattacgttc acatcgcata 120  
gtgtgaacca tccatggaga atgtttggga gatgcccact ctacaacata agcaaatgtt 180  
gattctctgt tattttttat ggtttattct cttatgttgt ttggttattt ggtg 234

<210> 15731  
<211> 254  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15731

agcttatcat attccctttc aaccaagttg aattctcaaa atgagtcttg tttatcaaaa 60  
tagagagtac cctgaagtaa agtcggtctc actatacaaa atcattgcc aagagtctaaa 120  
actttacaaa cttatagaac ataagattta gaanaagaac aatgaatatt cacaacagct 180  
tcagatgggt ttaccacggc aagcgggtcc ttaaagaact agccttggtc attacttgaa 240  
taatgaaaga caac 254

<210> 15732  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 15732

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ttcttattga tacttttata tggttagcca agtggacaaa atgacccaat aatttgataa 120  
gaaccttcga acaatgtcac cgcactgatt aagaacttac taagaagagc aacaaactaa 180  
ggtagagctc ataccttggt aactggaagc gtagaaagct ttgagctttg agcacccctcg 240

actattccaa gagcagtgtgta ggggttttttc gacccacaca gttccaacag cagtgtaggg 300  
 tttttcttga cttttcttcg ataggagggtt ctgtgggttc tatccagcga gttttgatag 360  
 tatcgaaa 368

<210> 15733  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 15733

tatttgatgc atcatgactc ttgactgcac agttccacat tactcaccaa gaccacacag 60  
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 acacatcata gacaaatctt cattgcatca tgactcttga cgcactata aagcatgggt 180  
 gtgggtttaat aaagcatcat attattaaag aaaatttaaa ataacaattg aaaagcatgg 240  
 aacaatgaca aatacatgat aaagactaac aaattattaa aatcaataca acaaagttgt 300  
 taaattattc attataattt cagggaattc tccagcttct gctctatctc cacccaactt 360  
 aggtcattaa cataagaagg tgatgatgaa ttatgaatat caattt 406

<210> 15734  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 15734

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 accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagtttatg 120  
 agtatgcttc ttggaattgg gatgaagaaa aagtggagaa gaatgttctt atacctgctc 180  
 aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240  
 aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgagta agatctttgg 300  
 tggacatata tgaaacctgt aacttggcca tacttgaact tggaagcttt gaag 354

<210> 15735  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 15735

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atcaaagacc tcaacacaga tcatgatgat tggtttctaa aagtgtgtat tgttcgattg 120  
tggaatattt ataacaagaa agatgagcaa cacccaatgt tattggaaat gatgttgcta 180  
gatgaaaatg taactaataa cgaatgtcga attgctcaaa aacaaataaa attaggaaat 240  
ttttagcac atgattaacc tcagtcgaac tcaaaaatat gattcaatat ggttcctacg 300  
ttcattcact tataaacaca aagggggaat tttatcgaat agtttgtgag cgattacaaa 360  
ggaatgcgaa aacacaaaaa caaaattcaa gaaacaaaac aaaata 406

<210> 15736

<211> 351

<212> DNA

<213> Glycine max

<400> 15736

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caggggcttg accaggaatc atttgtatgg gttggatatg gaattcaggt tgttcctggg 120  
ttgatggtgc tttggtggat gatggagatg atggtacaga ggggtgaacca ggagctgaag 180  
tttcttttgg tgaagtagcc atggagaagc acagcttttg gagtggtttc gtgaatatct 240  
gagaagtgtt gaggaatgct gatgataacc agattgccac taaaatatga gtttgaatga 300  
tgaatgtaga tggacgtgtg aagcaacggg cgaatttgtg tttgccaggt a 351

<210> 15737

<211> 409

<212> DNA

<213> Glycine max

<400> 15737

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tccttgaagt ggcgtctcca atcatcttct tccatctcc attctgctac cgttaaactt 180  
caagaagcaa gggactccat tgatgaagat gatccaaggc ctatatgctc cacattgagt 240  
tacattacga aaaatacttg tttgaaaatg taaacaatta caaaacatat tatatatatt 300

tatatatttt aaattacaca cacacacaca tattcaagtt ttacttaaac taaaaaatac 360  
 ttaaataatg tatgtgggta ctagaatata tttacaaact aactaattc 409

<210> 15738  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 15738

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 aaaagattaa tcaaattgta aatctcttta ctcatTTTTc tatgtatggc tttacacgtc 180  
 ttttggttat gcatgaatca cttagggcat gctagaatat ggTTTTctag tttgggctaa 240  
 gagtaagggtt ttcttaagct tgtattcaca tatgacccta gtgttgggtg atgtagctcc 300  
 ctttgagct tgtatgcctt ggatcttctt catcgatgga gtcctttgct tcttgaa 357

<210> 15739  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 15739

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 ggcataaact gaatttatac aaaagtgcaa aactgcaaag ctgcaatata tctttaagcc 180  
 caaaattttg acttaaataa accctcgctt aagttgagat ttttaggatt gtataaatag 240  
 atattcacgc taatttttaa ggacacatgt tcctcacttt ttaaaaacat ctcttttatt 300  
 aaagttcttc tccaactctc ttcttccatt gatcttccac ctttcttgct tttggatgct 360  
 actcatggag atgggtagct aagtccttcg ttgttggga 399

<210> 15740  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15740

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 ggataaagga atgtcccaca ttatttccat gacatgcgtg caacaatgat gattcaaaaa 120  
 ttttatgcaa aactagtcac gcatgcacct atgtggacac tcaagcatca agttttgtgg 180  
 tcatgtgata ctaatgctta agattaattt ttctatttta agtcaacca gtgtttccaa 240  
 aacatgctct ttataaatt catgcattca tccgagtcca ttttgggtgt tcgggaaaat 300  
 nttcacagca ttcacccttc aagtgtatac acattttgtc aacaaaacc ttttgtgttt 360  
 tgatcgg 367

<210> 15741  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15741  
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 tagatgtcgt aacctaccct acaaccggac gatgaaagga aataagacaa aagcacgttc 180  
 atctcctatg gagaaaacga gtgagagtcg ccaccaacgt ttatttgagg aaaatgtag 240  
 aaaaatcaaa aagaggtcta cgaatttgaa aagaagggtt caagagttgt ttaatcgagt 300  
 gtgcaataaa aataacgtga ctacaaaatt aattattttt cccaagaacg gtgaatttct 360  
 tttcttttaa tatattattt ttatttattt aatatttttt 400

<210> 15742  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 15742  
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 accaaatact cttactaagg gggtcattca taagcatcta ctatggcact tctagaatgc 120  
 gactgattat aatattctct agaacagcat cgtatctggc ttctgatcct gatctgttac 180  
 tggtaacgtt gatatcttca gcataccaac aacgtgtact ataccatcaa aaagtatggg 240  
 tttttagacc tggctgcttc tgcattacat gcaggtgtag aaataaattc atatgaacca 300



gcgcctacc ggaagctatc agttttccaa tacctctgat at

342

<210> 15743  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 15743

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agagttgtcg gaagcacgta tatactcatg gtgtaatgaa ggaattgatc gagcacaaga 120  
tgtaatgaga acttccttac cagctgtggg aagatacttc cccaatctgt gatatgatgc 180  
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atgagaggcc caagtatttt ccagacccta tgattgtata gacaccgga cataacatga 300  
ttgagtgcct caaagattgc tgagtattgt tgctacacaa tatatatgac gtgtctaagg 360  
tgatca 366

<210> 15744  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 15744

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tgatgcacct gctcacgaga tattatagtg taatgctgca ctggccactt cgcgggattg 120  
gggtagtatt atcatacctc tatgtaactt tcttcaacat cacctaaaat gacttgaaga 180  
agctccattg actgtggact ttctggtgaa ggatcaaaaa tgaaacatta ccgaatgtat 240  
aaatgataac tccgttccat gttatacttc ataccaaaat cagttaccct attactaaat 300  
atactctgga ttctcttt 318

<210> 15745  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 15745

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cgacaagaaa gaggagcaac ccccaacgtt attgcacatg atgtggaccg acgaaaacgt 120  
 cgcaaacaaa caaggtctga tcgcacacag ccaaatgaaa gcaggaaatt tggccgcgca 180  
 tgattagcct caggaggact ccacaatagg agacacaatg gttggaaccc ccattcacac 240  
 atacacacaa aaggggaatc 260

<210> 15746  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<400> 15746

taaactaaac tctgtacccc aggtgtcaag gaactgattt ggactatgta gacagtaacc 60  
 tcgtaaacad taagcatctg tgtctccac aatggctcaa a 101

<210> 15747  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 15747

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 ttccacatgc actaagtga tatttgatgt gtgtggaatg aaattaaatt aattgagttg 360  
 gtcc 364

<210> 15748  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 15748

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ctttttactc agacgtttga ttgagtcccg taatatatct agacgctcga gattcaattc 180  
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gtaatatatc gagacgctgt aaattgaatg ttgaagctcc gaccaattca aacgacaata 300  
ctttttactc ggag 314

<210> 15749  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 15749

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cttccgtatt caatttcaag cgtctcgata tattacagga ctcaatcaga catccgagta 240  
aaaagttatt gtcgtttgaa tttgctcaga gctttgggat tcaatttcga gcgtgtcaat 300  
atattacagg actcaatcag acattcgagt aaaaagttat tgtcgtttga acttgctcag 360  
agcttccgca ttcaatttcg agcg 384

<210> 15750  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 15750

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acattcagca tgcaca 316

<210> 15751  
<211> 405

<212> DNA  
<213> Glycine max

<400> 15751

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ttgatggggc ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgtgggtgtg 120  
gatgatttct ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgca 180  
actgtcaagc acttccacat ctttggaagt ccatgttaca ttttggcaga tagagagcaa 240  
aggagaaaga tggatcccaa gagtgatgca ggaatattcc tgggatactc tacaacagc 300  
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gttgatgatc tgtctccagc aagaaagaag gatgtcgaag aagat 405

<210> 15752  
<211> 126  
<212> DNA  
<213> Glycine max

<400> 15752

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tcctttaata gggtgggggtt attacttgcc ttctatatac aaaaacaagc cgacatggca 120  
acatat 126

<210> 15753  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15753

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atagtgactg gttatcaatt gaaatgagt tttagctata aatacaacat atatcttttc 180  
cagcgagctg atgtttttgt ttacacgtga cgaagtcggt gttcaagtac taatgaccag 240  
tacttttata ggagactata cagttgtcgt cataattata a 281

<210> 15754

<211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15754

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 aagctatccg agatctgacg tctatagaca gttgttctga tgcgtcaatc gtttataaccg 180  
 actcactgat tatacgacat tcatgactaa ctcggttcat cgatggcgta gctaaagcca 240  
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 acttcctaac caagtgagaa actcttttag accatctagc attttgttat tttcatgctg 360  
 atcacaataa aagcgctgct tgatgcaagc attctaacat taaaaatttt agcatgacgg 420  
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<210> 15755  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15755

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 caatctcagc tagatctcca tcaacttttg acttgtgaac tttgaaccaa aaactctgga 180  
 catactgctg ggatcgcttc cgtggcataa gattcccatc aggtattaag aaaatcgtga 240  
 agaaatgaat ctacaaaata atctcccatc tatgtctata cacagttaat gaaatttgcg 300  
 tatgagaaac aggacattat ttcgttcaat atataaaatg gataccagca cgcacgcgcg 360  
 gaacacattg tagcacacta tctgtcccca aatattcagg atctagatat tagcgataaa 420  
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 ataaaaccgt aacacatcca gatagtctct aaacg 515

<210> 15756  
 <211> 423  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15756

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gcacatatct acgtgttgag acacctctcg atcgataaag gctacatgac acgcgcgttt 180
ctctctctct cccatagccg tacggctgac aattccagca tttttgacac ttaggtata 240
ttccattgtc agctatagcg gcggctgctc atacaggttt aaggacggac ggctaccagc 300
gtacctacct ccatacaagt ggatacatgg tgtgaataac atactagagg ggacactgcc 360
ggcgaaaccc cgcctaactc cggctctacc tcaatggcct catactacgc cctgagcatt 420
acg 423
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<210> 15757

<211> 365

<212> DNA

<213> Glycine max

<400> 15757

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tatcagggtga cacagtaata ttaattaata gataaaggat gcaaatttaa gtattaatga 120
gatactaacc tttatttaca taaataataa caagtaatat gaaacttttg aaaaactaaa 180
agattaaaat ataaatttta aaaatattaa taattaaaat aaattgtttt atacatatag 240
gtttaaaatg aaaacttttag aaaacataaa aaaattaaaa tgaggatttt aaaaacataa 300
aagatctaaa aaaactttga aaacttaata catctaaatt aaaacaacac taactatgat 360
ggatc 365
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<210> 15758

<211> 404

<212> DNA

<213> Glycine max

<400> 15758

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ttatctgttg gtaaggctgc tggtggaaac ttattaggtg gaatcggtta cttctatggc 120
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cagtcaaaga ttgctctttc aagaatcctt aatgtaagtt actttatttt gttttttata 180  
 gtccttattg aagtgtatgc cacccttaa tagtgcataa cttgacatgt gattatcata 240  
 aatgtgaaaa ctttgtttct tgtgtttgat tttctgttga taaagaggag attttagaga 300  
 cgagaaaaag aaatacgaga acagaggatt gctaaccaac aaagaggatt ctagccaaat 360  
 taaaaatttc ttcagttgca tccataaatg aattaatgct tact 404

<210> 15759  
 <211> 54  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15759

tcatccgctt attatcactt attcangcgt taacaccatg cgtttatgtc acct 54

<210> 15760  
 <211> 135  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15760

gtgcgggtatt tcacaccgca tatggtgcac tctcagtaca atctgctctg atgccgcata 60  
 gttaagccag ccccgacacc cgccaacacc cgctgacgcy aaccoccttgc ggncgcatca 120  
 aatataacta cgtan 135

<210> 15761  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 15761

agcttggtgc ttatgttgaa aagcacgacc acggaaactg gcattcagtg cctgccaaag 60  
 cgggtaataa aacttttttg tattcctttt tactcaatct atgaattgag gttttaaatt 120  
 gcggttgcaa atacatttta gatttgtgat gatccttgat attgtgggac attgtagaca 180  
 aatgcagtcg atcgataagg ttgcaattgt agttgcaatg tgaatgcaga tattcctaata 240  
 tttgtttgtt acatacattt atatctaggt cttcaaagat gtggaaagag ttgcatgctg 300

aggtggatca attacctcaa gccagatata aaaagaggaa actttatcat ggatgaagac 360

c 361

<210> 15762  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 15762

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agtcctgtga tcaaggcggg aaatcccagg gccctgttgg acttatccgg gtccagaggg 120  
tgcttggttag gcgccatacc tgcaaata tagatggcat cagtgattag ctgagccacg 180  
tgaatgctca tccgtgtcag gatggcgtag accagctgac acttcggcag ggggaggtca 240  
gaattatgat cgctgggcag gatgttgcta agcagcaaag tcatccatat ctgagtcagg 300  
gtggatcatgt tgggtgcgat gatccgcacc cgtcttcagg cagcagtcgg ggcaaaatct 360  
tgccccggta tacatagcaa ctgggtgatg gcctcctcat c 401

<210> 15763  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 15763

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cgggtaataa aacttttttg tattcctttt tactcaatct atgaattgag gttttaaatt 120  
gcggttgcaa atacattcta gatttgtgat gatccttgat attgtgggac attgtacaca 180  
aatgcagtcg atcgataaag tagcaattgt agctgcaatg tgaatgcaca tattcctaatt 240  
tgtgcttgcc acatacattt atatctaggg ctgtaaagat gtggaaagag ttgcatgctg 300  
aggtggatca attacctcaa gccagatata taaagacgaa acttcatca 349

<210> 15764  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 15764



tgggtgatgg gcggccgaat caccttgcta ggtgttacgg ggttgccgat cgactggcag 60  
 agtcctgtga tcaaggcggg aaatcccagg gccctgttgg acttatccgg gtccagaggg 120  
 tgcttggttag gcgccatacc tgcaaatata tagatggcat cagtgattag ctgagccacg 180  
 tgaatgctca tccgtgtcag gatggcgtag accagctgac acttcggcag ggggaggtca 240  
 gaattatgat cgctgggcag gatgttgcta agcagcaaag tcatccatat ctgagtcagg 300  
 gtggtcatgt tgggtgcgcat gatccgcacc cgtctcccgg cagcagtcg ggcaaaatct 360  
 tgccccggta tacatagcaa ctgggtgatg gcctcctcat 400

<210> 15765  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15765

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 gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccgaagc ttncccaaca tccaagtaaa acaacattcc aacagcacia 240  
 actatcacag ccaagataac agagcatagg cagataactc tgccaaaaca ccaaccaaaa 300  
 tcacagcttt tctcac 316

<210> 15766  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15766

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 attttccacc atggagatgc agcggaagac aaaggagaag aggtaagagg cggcgccatc 120  
 cactagggaa taagccatgg aagaagaagc ttcaccacca agatgagcct tggataagaa 180  
 gcttggagag gatgcttcaa tggaggaaaa gaaagaagga gagaaagaga gaggggggag 240  
 catgaaattg aaggaagaaa aaggagagaga agttgaactt tgagttgtgt ctcacaagac 300

tttcattcat caaagttaca aaaagtgtta cacatgcttc tatttataga ctaggtagct 360  
tccttgagaa gctttcttta aaaaacttcc ttgagaagct 400

<210> 15767  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 15767

cttcaacttc tgaccacttc caggggtgctg gaactacttc acatggattt gatggggcct 60  
atgctagttg aaagccttgg aggaaagagg tatgcctatg ttgttggtga tgatttctcc 120  
agatttacct gggtaaactt tatcagagag aaatcagaaa cctttgaagt attcaaagag 180  
ttgagtctaa gacttcaaag agagaaagac tgtgtcatca agagaatcaa gaggaccat 240  
ggcatagaat ttgaaaacag caggttcact gaattctgca catctgaagg catcactcat 300  
gagttctctg cagccattac accacaacag aatgggatag ttgagaggaa aa 352

<210> 15768  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 15768

taaacattca atttcgaggc tctcgatata ttactttact taatcaagca tccccaaaaa 60  
aagttattgt cgtttgaatt tgctcacaga ttcaacattc aatttcgagc gtctcgatat 120  
attacgggac tcaatcaaac atccgagtaa aaagttattg tcgtttgaat tggctccgag 180  
cttcaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaga catccgagta 240  
aaaagctatt gtcgtttgaa tttgctcaga gattcaacat tgaatttcga gggctctgat 300  
atcttacggg actcaatcag acatccgagt gaatagttat tgctgtttga attggctcag 360  
agcttcaaca ttcaatttcg aggggtctcga tatattac 398

<210> 15769  
<211> 155  
<212> DNA  
<213> Glycine max

<400> 15769

cgttatgacg ttctcacttc ctctggccat aagaatcgga tgctggataa ggcctgcac 60  
 cgggtgcatta tgactgggct gactttctctg atatgagcga tgcgctcact gccctgtatt 120  
 cctgtccgga atcctgcggg cctgctgcga agtga 155

<210> 15770  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 15770

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 gctgaagaac ctaccaacgt gcaccaagcc aggaacatc aaagcttgag ggaagcagtg 120  
 acctgctaaa taaaggcctt agagtcaggt catcctcgct acgttgtccc cactcaccca 180  
 tgagctcgtc taaggggttg atactgggtc tattcaagca agcggtcctc tgactgtaga 240  
 gtcttctatt acagaagcct gactcgatgc ctagaggctc tttgggtaga gagaatcaac 300  
 tacgggggaa ctttctctct tgtaataaaa tgacca 336

<210> 15771  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 15771

tagcttatcc ttatggcctg actccggact tcacgccccg tgccaccccc gaagaatata 60  
 agccaagccc ctactttcga ggggcaactc ccaccttatg aagactatgc cgggcgagac 120  
 gatggggaaa gagaatccca tcttggtccc ctgctgcacc tgaaagatcc gtctcgcac 180  
 gaactacccc aaccgaacat atgccgtata cccggccta accacacccg taaaagaa 238

<210> 15772  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15772

tctagattag tgtaccagat gaccggggt ccagccaagc tatcttgga gaagtgcac 60  
 aacaactttt catccctaga atgcaccccc atcttgtgac aatacatttt gagatgggtc 120

ttaggacaag tcatcccttt gtacctgtcg aaatcaggta ccttgaattt tgggggggatg 180  
acaacgtccg gtactgagca aagatccctc atgtccgcga atggatagtc gccaaagcct 240  
tcaacagctc tcaatctctc ttcgatgaga tccagtttcc ttttttcttc tgctgccagg 300  
ggtggccctt ctacggacaa gaatattggg tgtgctggga ggtttcgagg ttctcccgtg 360  
aggttgggct gangtaatgt gttgggtgt 389

<210> 15773  
<211> 352  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15773

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gcaaaatctc ttgaactagg aagatgttgt ccatcatctt tctgttctta atgaaaccag 120  
tttgagtttc tccaataata gtctcaagca ctagggctat gcgattgacc aaaattttag 180  
acacaatctt gtataacaaa ttacagcaag atatgggtct aaaatggtta acctgngagg 240  
cctgatcatg cttatgaata agcgcaataa tagcatgggt gagctgcttt agaatttttc 300  
tagttgtata gaattcatta accgctgcaa atatatcatc accaatgata tt 352

<210> 15774  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 15774

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agaagaacat agaccacaga ctcttgcaat aggtgtagat ttatgattca tggcaagctg 120  
agttactagg ttgaccaagg catcaagttt tccttcaagc tttttatttt cagtagatga 180  
agatgaattc gtggccacct catggactcc tctaagaaca ataacatcat ttcttgcaact 240  
aaattgttgg gagttggaag ccatcttctc aatcaaattc ctagcttcag caaggggtcat 300  
atcaccaaga gctccaccac tggtagcatc aatcatactc ctctctatgt tactaagtgc 360  
ctcatagaaa tattgaagaa ggagttgctc a 391

<210> 15775  
 <211> 143  
 <212> DNA  
 <213> Glycine max

<400> 15775

tttctcctta cgcattctgtg cggatatttca caccgcatat ggtgcactct cagtacaatc 60  
 tgctctgatg ccgcatagtt aagccagccc cgacacccgc caacacccgc tgacgcgaac 120  
 cccttgcggt cggctatata tct 143

<210> 15776  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 15776

ccccacaac tattagaact ttttaattgca tctgcaaadc aattcaaaaag cgctactgaa 60  
 cttaaactgg ccatgagcct tgaccaccta ggccaatttt actccggccc cgggttctct 120  
 ttagacacct gcagcttgca tctctggaaa caatgtaccc tggggctgag gataacatct 180  
 tctttttgag atccatctaa atgcttgcaa gactcagtga attactatct tccagtagcc 240  
 gcaatggaag acaacattcc ggtatcaaac tctgtgtcac ttgcagaaac tgtgcccac 300  
 atggcccggg aagaacatga tgaatctcta gcatgcactt aacatgtatc tttagggtaa 360  
 gctccccgaa taccacctgc attcccttgg ttaatttgaa acgtcccttg ctttattgct 420  
 gggaaatttt actgaaagaa aaatcaagtt ttaggaatac ttgctttaaa ttttttgggt 480

<210> 15777  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 15777

tcttgaagc ttcacagtca agcagtcaag cttttttata aattctcatt taataaatgt 60  
 ttatcgaata aggcaagttt ggataaactt ctcaacaatt acttatagga gaagaaaata 120  
 aaatgaattg aacttcactt ctttcataag ttaaaatcaa cttgtgcact tcgacttcta 180  
 taaaagttct ctcatccgac ttctccaaaa agctgagatg cattatgttt attattttct 240

tctcttacat gctacaagg cttattaaga agtttatcta aactgaccca aaggatttaa 300  
 ttaagttatt tctttctcga cttttcttctt gcggtgctag aatttcaatt ctggaagctc 360  
 tgtttgattt gaaatagcat aaggatg 387

<210> 15778  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15778

agcttcatga tgaatcaaga ttgattcaaa gagtttcgat gataacaaag atgatgacaa 60  
 aaagctcaaa agtcaagaac acttcatgtt aacaaagatg atgacttcaa gaatcaaaga 120  
 atgaattcaa gattgaatca aaaacacttc aaggatcaaa aggaaatttg atttcaagaa 180  
 tcaagaatca agtttcaaga ttcaagttcc aagaatcaag atcaagattc aagactcaag 240  
 attcaagaat caagagaaga ttcaatcaag ataagtatta aaaagttttt tcaaaatctg 300  
 tgtagcacat taatttttct canaaacctt ttaccaaaga gtnntnactc tctggtaatc 360  
 gattacca 368

<210> 15779  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 15779

tgtaagagat accaaacata attggaatgt gctacctcat tgccattctt tagttcacct 60  
 taaaaaaata ttagatagtg cataatgaca ttgtttaaata aacaagtcaa atgtacacca 120  
 atgcaacttg aaaaaattta aataataatt atacacaaaa aagcattgtc taggtacgta 180  
 ccattccgaa gcattttttt tcttcaaatac ttttaattgg attaatatat tttgcctttt 240  
 atgtattaat tgaagattag ctgagctgaa gactaaaatc tatatattac gaaatagcaa 300  
 aacataaaaag gtgaaaatat tgataattaa ttttgtcaac tatcatatat caatcatgca 360  
 tgctatgatc catggattca tcactaaacc agccttgtcc aagttg 406

<210> 15780  
 <211> 367

<212> DNA  
<213> Glycine max

<400> 15780

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accagagggg aagctcccca agttccaact ccaaacacga ctcgaccggc cggtaattcc 120  
aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180  
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccgggaagg 240  
gtcctcgaac cccctttccc gaagtgggat gaccctaata caacttgcaa gtaccatggg 300  
gggtgtcccg ggcattccgt cgaaaaatgc ttggccctta aataaaaggc ccaacattta 360  
atggatg 367

<210> 15781  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 15781

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gaaaagttat gaccatttga atttctcgag agcttcctat gtttaatttg gagcgtctcg 120  
atatattata cgccatgaatc gaacctcagc gttgaaagtt atgaccattt gaatttcttt 180  
agagcatccg atgttcattt tcgagcgtct ctatatgtga tgaaccttaa tcggacctcc 240  
gtgtgaaaag ttatgaccat ttgaatttct agagagctta cgttgttcaa tttcgagcgt 300  
ctcgacatat tatgcgcccg aatcggacat ccttgggaaa cgctatgact atttgaattt 360  
ctcgagagct tccgttgtgc aatttcgagc gtttgaacat attgtgcgcc cgattcggac 420  
atccagggga a 431

<210> 15782  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15782

agctttcaac aaatgtcttc acaaataatc atcacacagc agaaaactaa caaaactacc 60





<400> 15785

tcctagcttt gaacaatctt aattaatggt agtgacttta aatggacctt gcaagtttgc 60  
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ctcacgtacg ttttctctct tgcgtattga ctattgatga tatatatgac agaattgacac 180  
aaattaaaat ggcttcatgg aacgtacgat gccaaactaaa aagttgtgaa tcagttcact 240  
atgcagaagg catatcttcc tcggccctcg gaacaaaagt attagactat taccatattt 300  
tatttttgca attcctttat gtgttatgta tttttcattg ctttaattaat ttatcgtcaa 360  
gtgtgtgtat atatagagtt ggcttgtgag gccatccaca 400

<210> 15786

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15786

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tttgagattt gtttgaactg taagcttgca ttaattatct ttatactaaa atacccttaa 120  
ttactttaca ataactgcat tctcattctt ataaggattg gagaagacta acacacatta 180  
attaggcaga attgtatttg atacggtgat atgaaatata taagatgcaa tactggtaag 240  
atacatattt agaaatgtat aaaaattcat aaaatataat aaatagttag ttgcaattct 300  
aaaaatgcaa attcaaaaca tacttctgag acantttctaa caagaaaaag tttatcataa 360  
attact 366

<210> 15787

<211> 402

<212> DNA

<213> Glycine max

<400> 15787

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aatcttcaca tatcacaaga gtataaggga cctcatgccg caagtgattc agactccaaa 120  
atagcaaaca tatttatcta agttgtttgg ctatgattat acgatcaaata acaagtctgg 180  
cacctctaac atcgttgccg acgctgtatc cagaattacg gccatagaat ccattcagtt 240

atttgcgtta tgcattgccac acttcatatt catggaccaa ctttgccaat cattctttac 300  
 caatcctgat tatgtttaat tgcgacaaca aatccaacaa accccagaag cccatcatgg 360  
 ttccacaatc catcaagaac tcatttttga taagggcaaa gt 402

<210> 15788  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15788

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 aactcatcta gacgctcgaa attgaacaac gcaagctctc gagaaattcc aatgggtcata 120  
 acatttcgca caaatgtcca attctgggac ataatatatc aagacgctcg aaaatgtatt 180  
 acggaagctc ttgggaaatt caaatggcca taatttttca catggatgtc cgatttgga 240  
 aaataatata tcgagatgct cntaattgaa caacgaaagc tatcgagaaa tccgaatggt 300  
 ccgaactttt cgcacggatg tccgattcgg ggacataact catctaga 348

<210> 15789  
 <211> 574  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15789

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 gcaatgtaca tctcancnca nccaagnac gccagcaaaa ttgaaccctt tgattcgctg 120  
 agacaccatg ngacactgta gcatgctcga gctacacaga catagatacg agaacgtggc 180  
 tcctcttcac ttgcatcatt catttagata cacacttgac caataatatt aggagaattg 240  
 cataatagca caatggctag atagacacgt gcaaatggac gccacctgca actagccaca 300  
 actgccataa tatttataca cattaaagct tccaataggc acatgccatt gctaaccatt 360  
 gggcccttac aacaacttga actagaccaa catatgccgc cttatatgaa taaaccgaag 420  
 aatatctgat ggtgaacact ctatactatg attggcccat tatttacaca tactaggcgc 480  
 tcttatagtt agacaatgtg gtgccatata atatctatat catgcgtgcc atgatccatg 540

574

<400>	15790
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<400>	15791
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<400> 15792

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caattccatc tcatgtacct gtaactgtcc aaacaaagta caaagagaca tgttagatag 120  
aactcgtgat tcacttatgg ctgttaccct gggttgtgat ttcttgctta aacatctcac 180  
aactttattg ataagatctt cattcggaaa tatttgctct aaagatgcat gatgattaat 240  
tatgtgtgtg aacctttttt gcatgtactg gatgctattg tcataacatg cccttt 296

<210> 15793  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 15793

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gaagttttct caagaaagct tttcaaggaa gctacctagt ccataaatag aagcatgtgt 120  
aacacttggt gtaactttga tgaatgaaag tcttatgaga cacacttcaa agttccactt 180  
ctctccctct tttattcctt caatttcgtg ctccccctt ctctcttctt tttcctccat 240  
taaagcatcc tttagtgaag gtgaagaagc aaaaggggaa gaatctagt aagaaatcta 300  
ccccaagaa gaaggacaac ctttaatggt taagggggag tgtaaggagg taagtgtctc 360  
ctccaagaga ctagctaaga 380

<210> 15794  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 15794

acaacattca agcaaaacaa cattcaaaca gcacaagcta ttacagccaa gccaaacaag 60  
gcaaaggcag aaaactctgc ccaaaacacc aaccaaatca cagcttttct cacttaaaga 120  
ccccagtaac aatttcttcg atccaattcg ttaaccggtg gatcgacttc aaaattttac 180  
tggaagtcta tagtacataa gcttacattg tgaaccgttg gatctac 227

<210> 15795  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 15795

ttctgcaaga catacaaaaa aatatgggat ctagctatga tagaagtctc tattgaggcc 60  
 attgtagccc ttaccagta ttacgatcaa ccgttaaggt gcttcaagtt tggggacttt 120  
 cagctagtag caaccgtgga agagtttgaa gagatcttgg gatgcccgtc aggaggaaga 180  
 aagccatacc ttttttctag gttctatccc tcttggcgag aatagccaag gtagtcaaaa 240  
 tctcggcaca agaattggac cgagtaaagc aaaatagaaa tgggggtggc agaataccga 300  
 ggaagcactt ggaggagaaa gcgaaggctt tagcggatca aggtaaatgg gctttgttca 360  
 ttgacatctt ggagctattg gtatttcaag ttgt 394

<210> 15796  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 15796  
 agtcgatcct gcagggcatg gcatgctgtt atctcactca ttacgtcaca gtctgaggac 60  
 ctggggcgta tacaatagtc ataaccagat actctgtagc gagcgtagcg ttttactctt 120  
 actattcgtc gaacaattat gcagcgcctc ggtagcatcc cagtgtctaca gcctgatggc 180  
 acacagaatg agtggcgtgt aaacaccatg agatcagcac tgagcgacag acgatgcaat 240  
 cgactaccgc acaatcaatg tattgctaatt ctgtttogcc tgcacatgac ctacgcagaa 300  
 actctatgtg accgcccccg cgaagaaacc cgcacatgaa attcctaatt aaatgtgctg 360  
 agtgaatgat tcggataact attcgcgcac ttatgttcag aatagttcag aatatt 416

<210> 15797  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 15797  
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 cgatccattg cataaggcac tcatggaaag tattgaacgt ggtgactgag ttgatgggtg 120  
 cctctacca tttgaagctg ttgaagtcga tcatcgtgaa cctggaacta atgggaccca 180  
 taacgctcat cacgatcata cctcatgtga tgtgctcgca ctagactacg atgtggcgac 240  
 ctttgacagt attgaatgaa tatcagttaa acagtatgct agacaatgct acgcgcgtaa 300

tcgggttcaca ttgttttggat gcataatgtc aaaatcctac gctactactg tactaaccga 360  
gcttacgaat aacaatcatt ttaaagaact aa 392

<210> 15798  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 15798

atctttgcag atttgggtctt cgccagtgaa aggatcaatg tgggtccgaa tagaggcaaa 60  
tttgatcatc ctactacgac gactgagaaa actggggcaa ataaagaggg tgaggatgat 120  
ggagaaaccc atgctgtgac tgccattcct gtactgtcaa attttccacc aaccaacaa 180  
tatctttact cagccaataa caaaccacct ccttaccac caccagtta tccacaaatg 240  
ccatccctaa atctaccaca aagtctgtct accgcacttt caatgacgaa caccaccttt 300  
accacaaacc aaaaacacca ccca 324

<210> 15799  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15799

ntctagcttt tcattgggtgt attatgatct ccttttgggtg ctctaaatta tgggagtatg 60  
ctcaaatata tagggcaatt ttgggttgggt ttcttgcttg attaggttga attaaggggtg 120  
tgtatgggat ggccctaggc ctataatgca tttttgaaca atgggacatg ccacattgtc 180  
cccgttctct tgctattgac gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240  
aatggcatta gcgcgtgact tttgtaagga aacaacccat ggggcatttt ggtttgtaca 300  
cattttcttt ttttgggaata tgtattcatt cctgaaaaag gctagagtaa tngccccgca 360  
tatatcctag gcctaggaac taaaatttta t 391

<210> 15800  
<211> 154  
<212> DNA  
<213> Glycine max

<400> 15800  
 atctttatgg tgaatcaaac gtgattcaaa cgagtgttga tgataaacat gatgatgacc 60  
 atagcgatga caaaatgctc aaagatcaat caactaacag ctattgtgaa tcaagaacaa 120  
 ttcaggagtt caagattaga atcaagaaga attc 154

<210> 15801  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 15801  
 tgttggctct ctcataaaga tctacccctt ggttgtaatt ctaggccggt taacttctct 60  
 gctccttggt gaattgggtc ttccgatgat tcctccaact taagccttgt atgaaattcc 120  
 tcccttggtt gaatcccgcg ggtcctcctt ggttgatatc ttcgaatccg aggcgattct 180  
 gagctcccat gtagtttact tccctggaag aatcttcttg tgctatgcat tgccttggtc 240  
 cgtgtgctcc tccacagatg tggcatcccc ctatttgcat ggctgaagaa taagagggac 300  
 ttaccgctta tagttgttgt agaagcttac tgagtgtctc cgttatggac tctatctgtc 360  
 gtgctaatac ctgcttttgg gcc 384

<210> 15802  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 15802  
 agcttgtgga tgctgatata ataatttctt ctgacctaat attacataga agggaaaaaa 60  
 tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120  
 tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180  
 aactaaattt gtcactcagt caatagtaaa gaggatataa agtataattt aattgatgac 240  
 attgtcatat tgtagtctt tcaaatgtat tattattgtt gatcacgcaa acttggtcat 300  
 caagtgggtc cccaacacct cgactatcat catggagaat acgccttgag tagtaaacat 360  
 t 361

<210> 15803

<211> 406  
 <212> DNA  
 <213> Glycine max

<400> 15803

ttgtgggtgt aaccggcacc ccatagaact ggcagtgacc cgtgatcaag gccagaaatc 60  
 ccagtgtctt attggacttc tccgggtcca ctagatatct gggaggtgcg atccttgcaa 120  
 attggtaaat ggcatacaag attagctggg ccacattaat actaaattga gtcaagatgg 180  
 cataaaccag ctggaacttt gggaagatca aaattatgat cactggggag aatgttgctg 240  
 agcagcagtg tcatccagct ggctgttcgc aaccgacaag tgtaccggat cgcacaagta 300  
 gtataaaatg gtaagaaccg agtatcaaac tctcggggaa cttgtgttat ctggcaagct 360  
 atttcgataa ataggcgtct agtatgaaaa tatgattgtg gttatg 406

<210> 15804  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 15804

agctttgcac tgtcatggat cttctcatgg caatatcggt acagcaagac tgaaaagaca 60  
 aaccaatatc catcactaca aagacacgca tttgtaaaat ggtggacaca atttgactca 120  
 tccaaagcgg atccagaaca agtgaaactc tggttccaat cccatccaga attcctcaaa 180  
 gcagctaatc cagaaacttc tgtgtttttg aaccaaaaagt ctcactctggc agcattttta 240  
 gcaggatcga aatcaaagga ggtccttagct aaaaatctaa aggaagttct gcaaagtgtta 300  
 cagcaggaag aagaagggtc atcctcaaag aaggaagaaa caagttctgc tgaagaagaa 360

<210> 15805  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 15805

tgtaatactc tatggaagtg aagactaaca gtttcaccag agtgtttaaa gaaaatggac 60  
 atcatatggt ttatgacatt atccctacta tgtaaagaaa ctttgctact tgttcttaat 120  
 tgttgctcgt cgtgtatgtc gaactccact tcaatctctt aatatggtgc atagatttga 180



gaattgttga ggacccatat gaattacatc acaacatcga tcattgtcgc aaatgtatatt 240  
cattatttca tctctaactc tctccccgtg ttctcttatt ctagaaggta tttgtgttct 300  
tctttgattg tttttcaatg cacaaattaa ccatatcatg aacattactt gcatgatcac 360  
catttgaact agaaaaaata tttgaattta atatcttcac t 401

<210> 15806  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 15806

agcttcggaa gaaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagcctgggt 60  
agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120  
ggatgtcaat atggccactg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180  
agaacatgac caaagcaaag ttttgagggg ctttataggg cagcaatagt gagctcaagc 240  
tccgaagagg tgaaaggaat catcacgggt caaaggcatg atcttgaagg acgagctaaa 300  
ggcttgccct atgtcgaaaa gaaaattgtc ccaacagtta agcgagactg aaaggaatat 360  
gtgg 364

<210> 15807  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 15807

ttaaaagatt ggctaagatt ttgttaacac ataatcactt agactatgaa ggagagctgg 60  
agttgctgca catgatgtcc aacgttatat caaggaatga gatcgggctg cacaatgctc 120  
aacgctagat gaactgtcac atgaagtatt gaagctgcac gatccacgat gtctaataca 180  
atgtcctgac atgtgccccg ataatactgg acttgctgct caatgcaaga tataagtcaa 240  
gtgctgaact gaagttgcat gatccacgac gtctgataca atgtcctgac atactgccccg 300  
aaaatactgg agtcgctggt caatgcatga ttacagtcga gtgcaaaatt gatgctgcat 360  
gatccacgat gtcagacacc atgtcctga 389

<210> 15808

<211> 359  
 <212> DNA  
 <213> Glycine max

<400> 15808

agcttctttc atgaatattt tgaatattac cacatgcata cgagaatagc agttagacaa 60  
 tattacatta ttccttgttg tgaatatggt tgacccaaat ggttgtgatg acaatgctac 120  
 atggctatgt gtgtatgtgt attccattaa cgactgatgt tttgctatat ctaaatacaa 180  
 gcgctgatat tgtgatatta atgttaatga tgtgtggacg gttacactta gaacaatggt 240  
 atgtgatcaa tcccagatag gaagagtga aatgtgagga ttattatatc aagaaatgtg 300  
 agttaacaag atgaagtatt gacaaggga gtaaaatgag aacaagatcc ttagataat 359

<210> 15809  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 15809

ttatgggggg acactgaagt cagttgggaa gcacatccct cattgaatac agcaggtggt 60  
 atcttatgca tttagagtga gaaatctttt gtgctagaga ggaaggtcat tgggaatgga 120  
 tttatactgc tgataggaat gtggcttcaa gaggccgtgc gagttcacat tgtcaacatt 180  
 tactcgccct gcgatattca gaataaaaga ttgttgtggg atagttttaa gcagctgaaa 240  
 agccccacat ctgggggtct ttggtgcata gtaggtgatt tcaatagcat taggcagcca 300  
 acagagagaa tgggtgtatg ccacagagct gtggaagacg gtacctctag ggagttcaat 360  
 gattggattg cggagttgga ggtagaggaa gcaccatg 398

<210> 15810  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 15810

agcttggatg aactcttaac ttatcgccct acttttatgc aaccatttc agaatagctt 60  
 gcatgttttt gaaaatctta ccacaactat gctcctccag aaagatttta atttgaaatc 120  
 ttttttghaa ctttgggttca agcacaataa ctaactctcc taagggtgtt catagcgctt 180

attatTTTTa atatattatc ataatgtaaa atctattgac taaacttata taattattat 240  
gctatattat ttttcattaa aatttgTTta acatatTTTT gttgaaaatt attaattttt 300  
tacttttatt tggaattatt aaaaaaata atataatcaa ccttttttTgt aacataatag 360  
taaa 364

<210> 15811  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 15811

tagcaaatta gaatatttat acctttctgg aaacttecta gtgggccagt tgccatcatc 60  
attgtttggg ctaactaagc ttagtgattt agattgttcc gacaataaat tagttggccc 120  
aatgccagac aaaattagtg gactttaatt tctaatttaa tttatctgga tttgtctggt 180  
aactccctgc acgaaacaat ccccatTTat ctggatttTgt ctgggaactc cctgcacgaa 240  
acaattcccc aatggtgctt ttctttgtca tcgttgttac gcttatctct ttacggaaat 300  
cagcttacag gaccaattgg tgaattctct tctttttcct tgtattattg tgatctctct 360  
tataacaagc tacaaggtaa tatcccaact caat 394

<210> 15812  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 15812

atctttctgc ctgcttgTac ctgcaatttg atttagatga atatccagac aatgatgcac 60  
ctatataggg cacatgtcaa tatccattac ctgcacataa ttccgctcac atatgttgTt 120  
aataTgaaca ggaatcgatg catctgttcc tattccattc ttctccatca gggatatcag 180  
ctcactttca gtaaggaaat ctggaggact ggtgctcccc tgcagaattt gtggtgttag 240  
ctatgtgtaa tacacacaga actccaatgg gaaatgaatt tcaaccttat ttcttctccc 300  
cagaaatggt tata 314

<210> 15813  
<211> 397  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15813

tgtgcaatgt ctgaaattgc gagtatttan gaatatgaaa ataagcagaa ttaagaatcg 60  
atgtataacg tcacgggggtt gaatgaataa actgaattaa tattataaaa ttggtttttg 120  
tactttttatt gtctacataa aattacaaca ccaaattttt agaggatgcg atgtaaagaa 180  
gtttttgaat ttgatggac gatgtaaaga agtttgtttt attaagtgtg tgaaactcaa 240  
atgtttgcat tgtaaaaatt gtcaaaactc attgttatta aacttttact taaattactt 300  
ggtaaacgaa aatgtataaa tgggttaattg tttccttaat aacgaaattc tatttggttaa 360  
atttaatagt atattttattg aaggaaattg tattact 397

<210> 15814

<211> 255

<212> DNA

<213> Glycine max

<400> 15814

tatcttatat atgaaatatt gctcatgtgt taataggggt atgtgtatta atattcaact 60  
atcttctagt aaataaataa cgatcatatt tgggtgtggc cttcctaact aatatttgta 120  
tcattttgat attgcaaatt ttctgtattt gatcaggaaa gagattcgtg tatgcatata 180  
ttaagtgaag gtacgatatc taagacaaaa ttggcaagaa atcaactaat tagtgcattg 240  
ctttatttgg cgact 255

<210> 15815

<211> 375

<212> DNA

<213> Glycine max

<400> 15815

tatcttatta tctgagattg gatattatgt ataagtataa attatattct aattattaaa 60  
gtcatatatg tattagctaa ttgaagatga ccttgagagg ctgaaactgt gcagagacta 120  
gttcagcatc taccactta attcccaact tcggaggagt tgaaaatggg gaagttgaaa 180  
ttgctcgcag agtggaggga ctatttcgct caagcatggt tctgctacat tttctttttc 240  
atgcttataa attataatca tataccttct ttttatttaa gaatgattgt ggggggtgtg 300

atgtattgta tatacgataa cacgcgttca agtctctaag gaatatgaga aacatttagc 360  
cgaatattta atatg 375

<210> 15816  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 15816

agcttctata gaaggttcgt tcctaatttc tctacaattg catcacctct caatgageta 60  
gtgaagaaga atgtggcatt tacctagggg gaaaaacaag agcaagcctt tgctttgcta 120  
aaaaagaagg ctctctaagg cacctgttct agctcttctt aacttttcta aaacttttga 180  
gctagaatgt gatgcctctg gagtgggagt tggagctggt ttgttacaag gtgggcaccc 240  
tattgcttat tttagtgaag aacttcatgg tgccaccctt aactacccta cctatgataa 300  
agagctttat gccttaataa gagcactccg aacttgggaa cattacc 347

<210> 15817  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15817

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60  
gccccatatt atttccatga cacaaatgca aaaatgatga tttggaaact ttatgcaaaa 120  
ctggtcatgc atgcatctat gcggacactc aaatgtcaaa tttttatggg catgtgatgc 180  
tagggctcan gattcatttc ctctatttta atcaacccaa tgtttccaaa atatgttctt 240  
ttatcaattt gtgcattcat cagagtccat ttcgggcgtc cggggaaatt tcacagcatt 300  
cacccttcag gtgtagacac attttccaaa aattgattat gatcaatgaa ttttttcaaa 360  
gaaagggttg aaatcgtctc ttttcaaaag catg 394

<210> 15818  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 15818

agcttgtaga atggctagac atgatacatg tcagggtttg gtttggttca aggataaaaag 60  
ggatgccccca cattatgtcc atgacacaaa tgcaaagatg atgatttgga aattttatgc 120  
aaaactggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tggatcatgtg 180  
atgctaaggc tcaagattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240  
ctcttttatc aatttatgca tttatcctag ttcatttcgt gcgttcgggg aaactttcac 300  
agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcgg 346

<210> 15819

<211> 390

<212> DNA

<213> Glycine max

<400> 15819

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caaaagcatg attgattaga gaaacatctt tatatacatc agctgggttg ttagaaaaac 120  
tcaatacctt tacctattgc tatcaatctt acttgcatth ttactgtttt tagcctatac 180  
ttagtttaat tatgttctaa ataatacaatt atcaatgttt ctttcaacaa tgctttatth 240  
atgaatttaa ccctgtctaa tactagttcc ctgagtttga tactcagatt caatcgtttt 300  
aattttaaat acttgacgat ccggtgcgct ttccggcaaa tcggatttcc cttgaacata 360  
ttgtataaaa gaaaaagtgg accaaaaagt 390

<210> 15820

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15820

agcttaatat aaaatatatg tttttttctt atgagaaact tattaatatcc atattggcgg 60  
atctatttcc tcctttggag actgaaaatt cttataaata ttaccgttta ctataatgac 120  
ataataagaa aaaacgtctc acaatgttat aaaacacaaa agataaaaaa agacaaccct 180  
ttgaaaaaga agagaacaaa ttaaaaaaaa aaaaaagaga gagctacatt acaataataa 240  
cacacttaca ataaatgctt ataacactnt gtataatttg tttttcttta tcacataact 300

tgtcttattt aatactctgg ttacagagaa acatccttgg cagagacaga aagga 355

<210> 15821  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 15821

tggaggacag ctttgtttga agcaagtaac ttccctggcc accatattac cactcgctcc 60  
gggtatgtac caacaattcc ttccatattt ttacttgggt ttttttttct tgttgagttt 120  
ctaaaacggt tcgatccatt gctatagaat gatctcttat ttttatttaa aattgactta 180  
aatatgtttt tgagatttat tattcttaat ctgatctcca agataaaatt tatatgtttt 240  
tagtccctca aatttttaaac atgttatttc tagtgggtca ataataaaaa aatataaaaa 300  
aaagtcaagt ttaaacata aaaaaagtc aaaaagaaac ttaaaaagta ttttacaatt 360  
ttaagacctc aaacttgaga aattaaaaat a 391

<210> 15822  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 15822

atcttgtcca gacactacat tgattgaaca gtataatata attcgaagaa gaaaatatga 60  
aaaagcttag atacagctcc ttgggttttg atgttgtttt ccaatcagaa ttggagtttc 120  
actctagaag tccacataat atagatgtgc attaaaggat tctgtagatt attgaaatga 180  
aactccaatt ctaactgata acagcaccaa ttgcacctaa agaactgtat gcaatgtttg 240  
tccaaaaaat ataccttga 259

<210> 15823  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 15823

ttcatgactt gcaatctttc tatagaatgg tgacttatac gaaaatgcc aaatctata 60  
gggatgacat tacattttgg atgggtaatg gcggagcata tggatcttga atgtgatggt 120

ttcaaggtaa gctgataaag cccatgactc acttcaactg taccaatcct cgctttgggtg 180  
 ttgatatcct gcaaaacaca agtattagag gagaagatta actcgtagct gtttgtggaa 240  
 atgagtttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatctttc 300  
 aatgtaattg aagaggtgag atggacgggt cccgagtggg tggcatgaac ttcgtgtcca 360  
 tttggtaact taactagaat gggtttaat 389

<210> 15824  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 15824

tgcttctttc atgaatattt tgaatattac cacatgcata cgagaatagc agttagacaa 60  
 tattacatta ttccttggtg tgaatatggt tgacccaaat ggttgtgatg acaatgctac 120  
 atggctatgt gtgtatgtgt attccattaa cgactgatgt tttgctatat ctaaatgcaa 180  
 gcgctgatat tgtgaaatta atgttaatga tgtgtggacg ggtacactta gaacaatggt 240  
 atgtgatcaa ttccagatag gaagagtgtg aatgtgagga ttattatatt aagaaatgtg 300  
 agttaacaag atgaagtttt gac 323

<210> 15825  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15825

ntatgggggg acactgaagt cagttgggaa gcacaaccct cattgaatac agcaggtggt 60  
 atcttatgca tttagagtga gaaatctttt gtgctagaga ggaaggtcat tgggaatgga 120  
 tttatactgc tgataggaat gtggcttcaa gaggccgtgc gagttcacat tgtcaacatt 180  
 tactcgccct gcgatattca gaataaaaga ttgttgtggg atagttttta gcagctgaaa 240  
 agccccacat ctgggggtct ttggtgcata gtaggtgatt tcaatagcat taggcagcca 300  
 acagagagaa tgggtgtatg ccacagagct gtggaagacg gtacctctag ggagttcaat 360  
 gattggattg cggagttgga ggta 384



<210> 15826  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15826

agcttcaagg tcaatggaca ccagctgaaa ccattcccca caaatccctc cttagtggat 60  
 gtagtggtgg aggagacctc cttaattcac cctacgtctc ttccgccatg acttanggag 120  
 ttttctttct tctctctcct tctttacttt tattgatctt atgattgtgc tacattgagg 180  
 acaatgtggt gtttaagtgt gagggggggg ggggg 215

<210> 15827  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15827

tctgtaatcg attaccagaa gcaaaaatga ctttgaaaag ctttcaaaaa gtttgaattt 60  
 taattttaaa agatgtaatc gattaccact attgtgtaat cgattaccag tgacagaagg 120  
 ttttgaaatt caaactgaaa agacatgact cctcaaaaat taattgtgta atagattacc 180  
 acagatctgt aatcgattag cagtgagaaa atttcaaaaa taactctgaa aagtcacatc 240  
 tcttcataag tttttgaaaa gccaccaaag gcctataaat atgtgacttg tgttcgaaat 300  
 tctggagagt tttttagaac ctcatgtctt tattctctca taagaaaacc ttgggccaca 360  
 cactttcaaa acaattaagg attcatataa gttcttcaag 400

<210> 15828  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15828

tgtcttggtt cgaggactt acccgttgaa gatcgaagaa cgatgaagaa cgaatgaaga 60  
 acgtcgaaga acggttgaaa tctttgcgaa attcctcacg gaaaacgtta cggaaacgtt 120  
 tcggaagcgc ctcggttan attttcttca cggaacaat tttccaagc atattcgaaa 180

gagagagaag tgcctaaggg gctgaacccc ttccttcttg ccttcctccc ctatttatag 240  
 cataataggg gaggtggttg ccgccagct cgcccaggcg agctcagctc gcccaggcga 300  
 gcagggttgc ttcctcc 317

<210> 15829  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15829

tgtaatcgat tacacacata cagtaatcga ttacttttagc acattttcaa aaaatattct 60  
 caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120  
 gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggtctta tcctattaaa 180  
 aagcaaatcg tgttatcctc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240  
 aattatttga gtgctcaaat tgttcagtct atctctttca agagagattt cttcttttct 300  
 tcttcttcat tctgaaaagg gattaagaga ccgagggctc cctgttgtga aagaattcta 360  
 aacacaaagg aagggttgtc cttgtgtgtt tagaacttgt 400

<210> 15830  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 15830

agcttatcac attaggggata gtttaaagtt taaaccacca aaacatattg cattttataa 60  
 atattaaaac taactctcaa ctcatatttt agttgttaaa atagtcatat aacacattaa 120  
 tatttttact aaaaataaca tatctataaa ttaacgaacc tgtgaagctt ggtaagtttt 180  
 tctaaaaccg tacaaccaa gctactaaac ccgaaagaaa cattgcaaaa aaaataaata 240  
 aataaacctt gacattttac taaataaact aggacaggctc ataccttaac tagaataagt 300  
 cataaacatt taatgaacga tctaataact tatccctagc tttttttttt t 351

<210> 15831  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 15831

tttaaacttt gaggaatcat gaattcgaac agactctaaa tattttttcca gttttgcttt 60

ttcttgata ttttcctggc aatacagtac aacaaaacat aaagcaacaa gcaattttcca 120

tccttgtaga gacatgtctt tggttaagtgg tggaatcaat ttgacacaac aaaagcagaa 180

ctagacaagg ttaaaatcta gtttaaagct catccagagt tccttaaagc aactgatcta 240

aagacttcat tgtttcttaa tcagaaatcc aagctagcgg ctttcctaga aagatccaag 300

tcaaaggaac atttgaccaa gaacttaaaa gaagttcttc aactacttca actacacata 360

gaaaatacaa atacctgaac acatcctatg tgtaggtatt c 401

<210> 15832

<211> 363

<212> DNA

<213> Glycine max

<400> 15832

agcttgagag ggttatggac cgaacgatag aatgtcttat ccaaataaa ctgtatgtag 60

atagctgaag tcttcttttt ggctcagaac gatcaattgc tgtgataagt cccttaactc 120

ctgcctgaca aagatcttga aacctccggc cacttgcaaa atcttgaaaa tatttgctaa 180

tcacgaacaa cacaagccgg agattgtgct gcaaccgaca tcacaatggg ttcttaatct 240

cagtataact aatactcatt ccaaagaata tcaacaaaca ctgcaacaat taaaccattc 300

atatccaaag agacaaagag agagaagaaa tatgaacgga gatgtcatat atcaactgac 360

ttc 363

<210> 15833

<211> 398

<212> DNA

<213> Glycine max

<400> 15833

tatcagaagg ggaatggtaa aataccacct caagctgata ttattaaggt ggcaaagtgt 60

ttcttttgca agaagaaggg acacatgaaa aagaattgcc ccgggttcca gaaatggctt 120

gagaagaaag gtaaatcaat ctcatagta tggtatgaat ctaatatggg tagtggttaat 180

attaacacct ggtggattga ttctggatct actattcata ttgcaaattc ttacagggt 240

atgcaaaacc taaggaaacc agtgggaagt gagcaaagca ttttatcagg caataagcta 300  
 ggctcacatg tggaggccat tggaacttgc attttgactt taagtagtgg ctttatttca 360  
 aaattagaaa ggacttttta tgtaccaagt ttttcccg 398

<210> 15834  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 15834  
 agctttgaga agtagtctat tgctttttctc tcatagccat tcatggcaag tgatattata 60  
 atgaagtcc aacatgataa tcctgttggt gtgggtgatg cccgaaacac ttgaataccc 120  
 tttacgatag ctccacactt gcagtacatg tcaataatta ttgtgagaac aacgacattc 180  
 aactcaaaat tccccttttt acataatcat gaaccactc cccatgttga agtgcaccta 240  
 agtgagcata aacacttaac aaactcatca ctgtaaattc actaagctga acccttcgtc 300  
 tctgcattct gcggaaaagc tccaatgcct ccataagccg tttattcctt acatatccac 360  
 taatcata 368

<210> 15835  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 15835  
 tatagaatat ataataaaag aacaatgaca attgtttagt ctattcatgt ttcctttgat 60  
 gagtctaatt ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccttagaa 120  
 gatacacata ttcattgaaa tgactctaaa gaaaaagatg aaggaagcaa tgaagattct 180  
 caagataatg gagttagaac aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
 catcccctcg acaacattat tgctgatata tcaaaagggg taacaactag acattctctt 300  
 aaagatttat gcaataatat ggcttttgta tctatgattg aacctaataa tataaaagat 360  
 gccataatag atgataactg gatcattgcc atgcaagaag aac 403

<210> 15836  
 <211> 347  
 <212> DNA

<213> Glycine max

<400> 15836

tattttctcc cctattttgc tataaatagg gggagaagtg ttgaagataa gggttcagcc 60  
 tcttaggcac ttctctctct ctcgaaattg ctttaagaaaa ttgtttccgt gaagaaaatc 120  
 caagccgagg cgctttcgta acgtttccgt aacgtttccg tgagtaatta cgcgaagatt 180  
 ctcgaccgtt cttcaagatt catcgttcgt tcttcgttct cttcagtctt caacgggtaa 240  
 gtacttcaca ccaagctttt caaatcattc tatgtatccg tgggggtcca cattttgttt 300  
 catgtatata tattctcggt ttcatttact ttttatacct ccctttg 347

<210> 15837

<211> 246

<212> DNA

<213> Glycine max

<400> 15837

atctagcttt attgtacagt tttgatcatg acataagttt tgctttccat aagtcgccat 60  
 aacaatgact gatactagtt ctagattagt cgaacaaact atcacaaact tatgtcatga 120  
 tttatgattt tgttggcgat catgcacgtc tcgagttgac tactttgctc tttgtaatga 180  
 gaaatatttc gtataaccta tcaacctcat tttagtccag tcacactatt aaaccattgc 240  
 ttttgg 246

<210> 15838

<211> 390

<212> DNA

<213> Glycine max

<400> 15838

tcagatgagt ctattaatga atcccctatt cgatttttatt tatagaaaaa tgaaatcggt 60  
 cataggcctt aaattaatag ttttaagcttt gcgggagagt ttgacgttga aatgggtgtca 120  
 tagtctagtg ttaagttttg ttggactctc ttcttaggtg gagtaaagat tcaaatgaga 180  
 aggttcattt tgtctcactt atttaagtgg agagaggtca aattaaggtg agaaggactt 240  
 aattatttgt gagggaaaaa caatgggtcaa acattgtgag agaaaagata ggacaaatca 300  
 ttttgatttt tgcacacca ccggagaaca tttttcacat tataataaca aattcgttca 360

ccggttgatc agactgattt ttggacagta

390

<210> 15839

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15839

tggctataag ctttgagcct gatnactgag gcctggaaca ccaggctata tatctagcac 60

ccgggaccc cttagttggt tgtaagctgc tttcttccat aaagggtttc atatccctagt 120

acttagtaca tgtgtccctt gaaccttcct gtaattctat gcttttcaca gtatatacat 180

gtatatgtcc tagactctct tctcgccgtt ttatttgccg atgtctaggg aatacatgtg 240

gataacgtag agtctttgat agtattccgc gcgattcaac tcagcactac gatgccttca 300

tcagaattat ttatgagtta actgttattg tattactgtt catgcttgag tttgattagc 360

taaagggtccc gtagctttat cttatctttt acctagactt agattctcac tccacgaagt 420

cctgtcgtca gtctttctgc gaatacgcc 449

<210> 15840

<211> 373

<212> DNA

<213> Glycine max

<400> 15840

tcgagccaga aacctgtcac accattttcc tcgttttggg tgagaacgtc aatccttacc 60

ctctgaagca atatacagag agacggaata tttcctatcc attgaccaca gagacgattt 120

gacatcctca atctcataga gggagatcgc atctcgaaat gatagaatat tcccaatcac 180

tgagtgggac gcaagaataa ctcacatatg agaatcgcat gaaataactc tctgatcaa 240

cgatctaattg aatacagaag aaatgtgcat aaagggtctt tgaccatact atatttgaac 300

aatacataat ggtcatcaat tgaacaaaag aaagaaaacg aaaccatgac ctattgagga 360

cttatccctt tga 373

<210> 15841

<211> 491

<212> DNA

<213> Glycine max



<212> DNA  
 <213> Glycine max  
 <400> 15843  
 ttcttttatg ctcatcacagt tgcattgttg gagtaggtct atgacatacc attttaatga 60  
 gacatctact atgaaggctc ctttaattga ttgcttactg ttctatatcc ctccactct 120  
 tcggtattat atgcactcat gattccaatc ccagacactt tctaaaccac aaccatttat 180  
 tctactcaac tgaccacaac accatattat aaatgtcgaa ttctaactaa aacatgccat 240  
 atattaatgt cctagatact cataagctac tatgaagaag ttcttgctat g 291

<210> 15844  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <400> 15844  
 ttagtcttga tgttgttcat gttgctcccc ctatttttaa caatcttccc ctttttggct 60  
 ttgatgatgc caaactcgaa tataacattg aatgcattta gagggctctga gtcttgagat 120  
 tagagacttg cttttcttaa tcaatcttga aaattattaa cacttaagaa aggatcaatt 180  
 catatcatca tcatcatcat atatcttact atataatttt actgatgcta atgcaatata 240  
 atgtagtgca gtactagtgc atctcccaa tgcttatata atacaatgca cgcaaatatt 300  
 caatacatat gcagcagttc atatatatct cctttttatg cacatatgca gttcatctcc 360  
 cctttttggc gttaac 376

<210> 15845  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <400> 15845  
 agcttatgtc tgggtcaaata cagatttgag catacataat actcccaaca actgatgcat 60  
 acgaaattac ttccatttgt ttccgttcca gatcatttct aggacattga gcgagactaa 120  
 atttttctcc tttctgaatt ggaatgggaa atgatgagca cttttccatc ctatataact 180  
 ctagtacttt attgaaatat gcttcttgag acaagcctaa caatccttgt gatctatttt 240  
 ggaatattct atttgtatca catacgttgc ctccaccatt tccttcattc aaagttacta 300



aaaagaacct tttagtc

317

<210> 15846  
<211> 387  
<212> DNA  
<213> Glycine max  
  
<400> 15846

tttagttctg cttacttatt ttttaattgg gtcatatggg tgtactgtgt gtttgtgtga 60  
acatcaattg gttctgctta cttgttttag gtcttggtat caatttggtg tgtgataatg 120  
gctaattcca ttttaaggagt tagagttatc cacctcgctg atgtttgatg gaacctgtca 180  
acatgatgtg gcctgccctg actaactcgt atgtctgacg agccaacatc agcgtgggaa 240  
gggttggccc attagcctgc catacatata ttttttttaa agaaaatcta aatactaata 300  
ggtgtctacg gtttgggttg tcactttgga tcttcttata gtatagaaca acataggcat 360  
ttgctattat ttttatatta ttttata 387

<210> 15847  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 15847

agcttaacgc tcgggaggat tttgtctcac aaaactgata acgttaattg cattatatat 60  
atatatatat ataggggaatc tacattgtgg gtaatggggg ccattggaaa gtaaaattta 120  
cttgaatata tcgaataaat atttttttcc tctataaaaa aataaatctt gcccgaaccg 180  
gatagctttt tcataaggta aatataaata aatgtaaaag ataaaagaga atacattgat 240  
attaatttat ctttttaa at tgtactat tttattatcaa ttttaataaa acttatataa 300  
ttgtttgttt gagaaaatat tagactatgn tttacttaaa aa 342

<210> 15848  
<211> 386  
<212> DNA  
<213> Glycine max  
  
<400> 15848

tattaggcct tttcttatta tacctcttgt gaattcactt tctcaataca cttattttctc 60  
tctccactta tccaccaaat cactgatcaa taactatttc atttttgaaa gattcaatta 120  
tttattttaa tgtgtgaaat aattaatgtg gataacagta taattgacaa aaaataatta 180  
atgtaacctt aaacttttaa aatgatagat aactaaaaaa tgattttttt ttcaaaaaac 240  
ccgacaatta gaaaaaccaa gggagtataa ctgaaagaga tttttttttg ctaattgtga 300  
gagtttttcc atgaaacaca cgtcaaaaaa aaatactgag aataagaaag aataagggtgt 360  
gttttgtatc taacttaaaa ttata 386

<210> 15849  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 15849  
agcttattgt ttatggattg ccaaattcca catcatttga cattattctt aaacaaacta 60  
gtttattaga acaaaaaata aagaaaaaat gtatgggctg gttttatcta tttatagaag 120  
attttgagtg aaattataag attttaaagt ttatgaaatc aatagtattc tggttgatgc 180  
caatagaaac caggtaaaaa tcaaatcctt tttatctcaa caattataaa gtccttgctt 240  
caaatgaagg aaagcattgc tctgcctatt gttaattttt gttttactgt attgtaatgt 300  
ttttttctgc ttgcatgtga aatacattca agttttatgt ttttgggttc ttatttttac 360  
attcaa 366

<210> 15850  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 15850  
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aagttacttg gattcaatag agaatatgat agatttaaata aaggacataa agaattctta 120  
tcgtttaacc gaaaaataag ataaaggaca tatttttctc agatttatatt atatttgaag 180  
ggaaattaag atcccaacat ctaatttcac ctctataaaa taggttaatc aaggtttagg 240  
tattttaatc tgattccaac ctacatatat ttgcttacct ctacattggt aacttgagcg 300

tcgaagtgcc attgtaggta cacctcacca ctgttcgtga aggagctcac cactaataaa 360  
aaatacactt tcaacatcgg ttatttacgg cattctacat cgg 403

<210> 15851  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 15851

agcttcatac aacttggtgt aattgattac aatgaggcta taatcgatta aaatagaaag 60  
tttttgcctt tgaagaaaat tctctaacta agaaactttt cttcacacaa accatgataa 120  
tgcattgatgt aatacaaata tcaaatgtac taagatgtaa caaccaagat aacaaccaat 180  
acaaatgcc aatcaatggag ttggggatgt aaaaacaaaa acttcttcaa gcttttagccc 240  
ttaggttggtt cagaagctag ctagttagtt aagttgaaca tccttttagat tgctagctgg 300  
ttgaaatcaa gcttaacgag gtggatatag ataaataata ggaggaaaaa agttgtataa 360  
tat 363

<210> 15852  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 15852

tcatgatgaa tcaagattga ttcaaagaag ttttgtcgat aacttaggtg atgacaaaaa 60  
gcttcgtgat gatctcaaga atcaaagaat gagttcaaga tgttcaagat tgaatcaaga 120  
acatttcaag gttcaagagg aaaattgatt tcaagaatca agattcaagg ttcaagcttc 180  
caagaatcaa gatcaagatt caagactcaa gattcaagaa tcaagaaaag acttaatcaa 240  
gataaatatg aaaaagtgtt ttcaaaaact gagtagcaca tggatttttc tcaaaacctg 300  
tttaccaaag agtttttact ctctggtaat cgattaccag attattgtaa tcgattacca 360  
atagcaaaat ggatttgaaa aatttttcaa ctgaatttac aatgt 405

<210> 15853  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 15853  
 atcttcgggc tccacctagc attttccctca aaaattttct cattttttta cctcctcctt 60  
 gaccattgta ggctcctcaa cccaagtctc ctccacaagc aagcccttta tcaagttggt 120  
 ccttcctttt caattgatga tggaatgaaa aaatttagtg ttgcaatgac cctccttttag 180  
 ccatctatct cttgactttt ggcataaaag agattcatta taattagcaa ctctccaaaa 240  
 atcttattgt aatttttagtc acttctttta atcatcttca ctaagaccat ggctctcatc 300  
 aataatacct agctcattta gatctatctc aatatgcttc aacttggtat ttatcgaaca 360  
 aa 362

<210> 15854  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 15854  
 tcattcaaga cttttaccag caaagctcga tgatgctcag agctcatgag cagttccaaa 60  
 agagagactc tagctggggg tttggtgagt tactcaataa ctttgaactc actttgttga 120  
 ataatgcgga ggaactcgct ggcctcctag agcgatacct ctttcttgct acaaccctct 180  
 cttccctcag aaagaccttt catcggaaca tctcaccog aagtggggat cactttgaca 240  
 tttggctcct ccgtcatcct tgccttcccc ttagcatttg agggctacgt cggtaggtca 300  
 ggggggtgcaa atacgcgacc actgtggggt atgcccgtca gcccgtgat attggttact 360  
 ttggccgaca tcgagctgat gtcggtagct ccttctt 397

<210> 15855  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 15855  
 agcttttgaa gagaaagatg aagaagacc aactgtaaca taacggctag tttgacctat 60  
 tgggtttata tattgaaaaa ggacaatgac aaaagatgag agagaaggta tgagacaacc 120  
 aacacaatgc aaaaacaaag ttcatactct ctccatcctc catgatcttc ctatgtgcaa 180  
 aaaaaaaaaa acaaatcggtg taaattatag tcaaagctac aatgaagatc caatccatta 240

gtgtttctta gttgtaaaat cctctcaaac actttctcct tgtatgtaat ctgtatgtat 300  
 gccaaattaa tcaagtgaat taagtttgaa tgtgaaagaa gtgatagaaa aacccatgaa 360  
 atg 363

<210> 15856  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15856

tcattggata atcttttgta gcatgccaat taggataagg gaattgttaa gggcatctaa 60  
 catttttggt gaggcaccta ataatttttg gaaatgtcga aaataccctt atggatatttt 120  
 ctgttataaa tagtaggagg agtttttcat ttccgcaaaa tcttcatcac ttagtgtaag 180  
 ttgcttctga taagatcggg ttccaagcgt atttgggtctt cgactgtgta cgtgcgttgc 240  
 tgaagagtat acggtaaatt ttgggttggt ttcggttgctg gagaagaaga ggtacacgaa 300  
 atacatatag attgtcaatc catatgggtt atacgaatca gcaatccata tgactcataa 360  
 ggatcagcaa tccatatgac tcatacggat tgtcaatctg 400

<210> 15857  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 15857

agcttatgct gcaaacatctt ataatagacc tcctcagcag caaaaccaac aatagcagaa 60  
 gaattatgac ctttcaagca atagatacaa tccagggttg aggaatcatc caaatctaag 120  
 atggacaagt cctccacaac aacaacagcc tgctccctct tttcagaatg ctactgggtcc 180  
 aagcaagcca tatgttcctc ctccaataca gcaacattca caacaaaaat aaataacccc 240  
 ccctaattcg ttactatttt attactatct gttatgaacg tttggttgac cattgctcgt 300  
 taggagatga cctatgatca ctccctagat actgcatttt taatgtttat ttgatttggg 360  
 tgc 363

<210> 15858  
 <211> 402  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15858

tgttaggaata tgggggtaccc atcatatgtg gtactagggtg gcgttcgggc gatggtgcaa 60  
atcaactctc ccacatccac aaatcaaaca tgaaccaccc atccccagtt gccacacctc 120  
aactgagctc acgtatcccc atgtagcctt tatcctcggt cctctcagca tcgggtcccc 180  
atcaaccctt ccaagcttcc acaatatcca agcaattcaa tatccaaaca tcatgaacta 240  
tcctaaacta agaaaacagg gcagaggcaa aaaactctgc ccaaaacaca ttccaatacc 300  
acaactttcc ctactcaaat accccagtaa cattctcttc gttccgattc gttaaccggt 360  
ggatcgactc gaaagttnta ctggagggtcc ctagtaaata ag 402

<210> 15859

<211> 350

<212> DNA

<213> Glycine max

<400> 15859

atcttctttt ggaccttgaa caggcaacta actcctcttt caaaaccatg ctatgtgctc 60  
gcgaatggtc cctctcttcc cttegcagct tgagttcatt gttgctaccc cacagagctc 120  
cacgaaattt attccggcca tactcttctt tgcgagccct cttggtctct tgttcaaggg 180  
ctcttgagct agttgcattc tcttcccgtt acccggcaca ctcttccga atgtgtgtag 240  
cgtccaactt gaacttctcc ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300  
ggacttcttc gtctcttcc ggtgcttcaa aactatcttc gctgacgact 350

<210> 15860

<211> 395

<212> DNA

<213> Glycine max

<400> 15860

ttcctacaag tctaattgg cattttatac tatgatcaac tcactttaga ctccaattta 60  
cactaaccct aaatttagct tctctaacc tcaaaatctc acacttttct acctacaaca 120  
ttgtcattct cacatttaac cctaagttta ctttcccat catctctacc agctttctat 180  
caacaatttc agcacacaaa catcacaag catcatcata aaaccctaaa acagaatggg 240

taaatttggc tcacatcaaa catgtcaagt ttagcatgct ttcaacaaat tccttcacaa 300  
 ataactacca taaggcatta acctagcaga actacccatc atatcccccc aaaaccaat 360  
 acccacgaaa ttcatgtgag aagaagtcca cccaa 395

<210> 15861  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 15861

agcttgcgat catgggatac cctccatata cagatgggta acctgatcgc cttacaaca 60  
 caacggcctg tactagagat gtaacgaggg aactgaaaca atacacacta cgtgtggggc 120  
 cacatgtgtg aaacttatcc cgatcgtgta ctctccatga gacttttctg tacctttcat 180  
 aaattaccct gtcatgcgtt cgtaatcat caccagtaca ctatccctgt tataactgtg 240  
 tccagcttgg aagccatctt tacctacctt aaacctgacg tcg 283

<210> 15862  
 <211> 196  
 <212> DNA  
 <213> Glycine max

<400> 15862

tcgcggtgca gcggccaaag gctatgtttg tagcttttga ctaatgtcta ccgggtaact 60  
 tgattttttc tataatccga tgctgtcgtg taaaaactcg agagaagatt gagccaatgg 120  
 ctgatcaaga ggaaattatc ctttaacacc tcaaggcaca tgctcgacac tgacctttgc 180  
 atatatccac atgctg 196

<210> 15863  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15863

ttcttatata gaccatcacc aacattntaa catttggctc tagaatatat atgatttctt 60  
 ggcttgagga tgaacaggaa agttagaata tataatataa ctcagaagta attaccttac 120

tttgctggag gtcattgggtt caaatccaaa aacagcctct ttgcatatgc aaaggtatga 180  
 ctgagaacaa tatacctccc tccatacctt cgcataagcaa ggagcctact ggcaatggca 240  
 tatgaaagtt ntaattaaca ttacaggcaa agaataactct cctgtgtgct ttcattgattt 300  
 tatatttaga tcgactataa acattcgtaa gtttaaaaat caat 344

<210> 15864  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 15864

tgaagtgaga aagtgtggaa gagtttttct tccttctttt attcgttgac caciaagtgg 60  
 tacctggaga tatgtcgcgg gggtcaggag accttgggga catcagggtg ggtgctattt 120  
 cccaaaacca agcttgacca atcccgacct aaccgggtca tagtcagtca gtgaaaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaaacga taaaagaaca aagaccacaa 240  
 agcaaggagg cttgtgtggt ggctggccag ctatggatct tgagtgatat ttggaatatg 300  
 gcctctggta atcgattacc aagggtgtgt aattgattac aaggcttaaa aatgaagaca 360  
 agaagttaag atggcctatg gtaatcga 388

<210> 15865  
 <211> 162  
 <212> DNA  
 <213> Glycine max

<400> 15865

atcttgcct gaaggccctt ttcattagttc gaaggaatgc ccctcttcca taggggcttc 60  
 ttaagatcat tgcaatactc tactacacga ttggtagtct gggacaacga ctaacttttg 120  
 tgttaaaaca tggataattg tatcaaactc ttgcaattta tg 162

<210> 15866  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 15866

tcaaataatgt tcaaaagcgt aaaacttcca tcttcttctt tcttctattc ccttaaatcc 60



tcccacaata cccccaagct cctcctccac caccactgac taccagtgat cgccacaagc 120  
 tgcttttagct tgccatcgga tcaactgcacg gaggagaata gcttgatcgg agaggaatct 180  
 taaaaactca actcgaggat accgtagaga atgaagccta caatccttcc ttcattggttt 240  
 ctgccaggga atcatgattc taagccttct ccttggttaga tagagtctat ctttgcatct 300  
 cttgtgactt gggaaccatc attggatggt tctatacttc ctttgagaaa ccctcgaaaa 360  
 tgagacattg taaaagttat ctattcataa ca 392

<210> 15867  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15867

gtggatcata aananctgag gccttgannn cctgggcaca taagctagac ccggggcccg 60  
 ggatctctta tagcacgcgt ttcattgaaa ctgggctgat tatggggaac tctgtcagca 120  
 gtgagtacta acgtggccag aatagcgaat tgacgccaca acaatgggtgc tacaccattc 180  
 atatattgac gcgataaacc gccattccc tgatgccaac tccaactgag cttactggac 240  
 tccacgtaga cgctattgtc taggataaaa tgaacgtgac tccatctatg ttttaagggt 300  
 acttaagatt cagagggacc tctgtcttat taagaccagc tcttcaaac tagctttata 360  
 aatgcatgtg ggaaactctt gtagacaaca aaaaaatata ggttttttct ttaagacacc 420  
 ggagaaatcc ttatcg 436

<210> 15868  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 15868

cttagaccgt cgtcgtagcc atcgtgcccc tcaactattct tcaaccata ccagtcacc 60  
 cactcccacc tttgtaccc caccaccaa actttcttct cgtcgattat caccggagga 120  
 gatagccatc aagcgagaca agggctctcta ttattattgt gacgagaagg ggttaacagg 180  
 gcacgctgc ccccccgca tccacctct catcgagac gaagatgtgg atttgcctt 240  
 atcaccatgc ccaccgaat cccaattcca tcaaggggtt cttctccacc gttgccttcc 300

gacgactctc cgcttaatt aagcttgaac gcgatgccag gaatgctagc tcctgaaacc 360  
 tttcgtgcgt atggcaccga tcagcatcac aa 392

<210> 15869  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15869

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 gccacgtgtc agactcttcc annttttagaa cctggaatcc ttagccattg aaacctgcga 120  
 acccataggc gaatagagct ccggcccgcg gatcctctaa gtcgacctgc tggcctgcaa 180  
 tctttgcaaa aatagaacat taatgtgaaa aggggttattg tgttactgac acttgaacaa 240  
 tacaacacac ttacctatct ctccgggtct tgttatacga tgggtgtctcc aataccaaat 300  
 gctatgagat gatctatctt aggccccaat gttggtctag ctaatatgca ataaaaagag 360  
 ttacataatt ggtccacttt ttatttaata aattattatt tgtgatattc atggggcaca 420  
 tttctctccc ccaagaaagt tgaaatgaac ctgtaatgtg aggaggattc ccattaatta 480  
 acgtggaatt aataacctcc ttataccact cacacttatt gtgattgatt gttccataga 540  
 g 541

<210> 15870  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 15870

tggctcctct gtaattgtta actgcaggct accttatctc ttccatagat gacattttat 60  
 gctacgcagc ttcttgggtcc aaactaccat tgccgagagg tatacttatt tgagaatgtg 120  
 tgcttttttaa acaaacatca cgtctcttaa aattaactgt ttcttctttc tggtgactgt 180  
 gagtggtaaa ctatgcaagc tggattcttt tcaaataatc ttttgattta actccacttc 240  
 atgtatcgtg caggggtcta aacttgctac actgcctcat ccagatagtg tctttgaagt 300  
 cctcttgatt aattgttagt atactattgt tcttgagttc ttttagctatg actccttttt 360

ggttgatatg gtgctcattt ggtttt 386

<210> 15871  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 15871

tatcttgcca actttgaact tcttccaaga ttccaaccag aaaaatcagc ctcagttaat 60  
gtatgatatt acatgatgct tgctttaatt taattttggt ttgttttagtt tctctatttg 120  
tagatttcat tgatgtcact tgggaaaata tgatatgatg acatgacaga gttattatca 180  
ctttgccttg ttttatgaga ttttagatta atgaagtatt caatttatgt tcttaatgta 240  
aggtgtgaat taatctttgt tccttgcaat gtttcaagac ttcctttatt catcatccct 300  
tccatttggg ggtttttcaa gatatactgt aatg 334

<210> 15872  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 15872

tgaggatatt gtgccatagt aggccagata tttcttatgg tgtgggcttg ataagcagat 60  
atatgaatga ttcgaggact tctcatatgg ctacaacaaa gagaattttg agatatgtga 120  
agggcacact tgactatgga ttgctattct ccaaatcata tcataatcaa agaataaggt 180  
taattgtttt ttctgatgca ggagtgggta tgtagaggac aacaaaagca cactggata 240  
tgtcttcaaa ttacttggat caacaatctg ctggagttct aagaaacaag aagatgttgg 300  
acattcaact tgtaagtcag agtacatggt tgctgtctta tcagcttgac aattagcctg 360  
gttgaggtca ctctttgcag aattg 385

<210> 15873  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15873

agctttggca atcggtcggc tgacttaaat gaatcaaagg aaattgatgg aaaatttgat 60

ttctaatagaa tttcaatcta taataaagac catgtaactt ttacttttgt ttctgtatat 120  
aatataataa tgatggatga ctatttgatg ggttcttaaa gcctgatgaa gttgcagctt 180  
tctatttggt ttattgaata gttatacaga aataatcctt caatttctct gtctctctct 240  
ttgaactctt ctagtgtgta ttagttatag ctagatttaa tcaatctgtc agcattgaag 300  
aattgtaatt tcagactttg atctttgaac tgaaaatcat ctgcattgnt tgtttgtttg 360

<210> 15874  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 15874

tgcccagaga aggagtccac agaggaaatg cttaccacct caaaagactg gaaagcggtt 60  
tctaatagact cctctgcggc ctccacataa ggcatagagg acgggcagct cactaagatg 120  
tcttctctgc ctgacacgat gaccaaatgc ccctccacta cgaatttcaa cttttggtgg 180  
agtgtagagg gaacaactcc cactgagtgg atccacgggc gcccacacag acagctgtag 240  
gggggggttaa tatccattat ttggaaagta acttgacagg tgtgatggcc tatctgtact 300  
gggagatcga tctctcccct aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360  
gaactcgatt ttaagtggga ggcattgaat ggtaatttct 400

<210> 15875  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 15875

agcttgaagg catgtaactc caccatctt cttatagtag aacaccggta atgtgtccac 60  
tatcattggt atcatctccc tctccatcat tgggggcact acttgagctg ttagatccct 120  
ccacctttgg gtgtattctt tgaaagatcc atgctccctc ttacacatgt tctgtagctg 180  
cattctattc ggagccatat cagaaatgta ctaatactgt caaatgaagg caaccattaa 240  
gtccttccag gaatggacct gagaagggtc cagattagta taccaagtga cagatgtcct 300  
agtaagactt tcatggaaga catgaatcaa caatcttcat ctttcgtgta tgcc 354

<210> 15876  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 15876

ttttctgcaa cctctctcct ctaaaaattg cacattgcat cctctacctc aatcttgcat 60  
 ccttcatcaa atcttctactg agcatctgcg attcatgtaa gtttctaact tcccttattc 120  
 ttttctatta ttgatacttt aggatagcaa ttttaattttt aggggtagat tgtaagtaga 180  
 atagataaaa attaggactt tgtaggagt tgtaagtggg agataatggt gactgtgttg 240  
 catgtttgat aagggcctat tagaggccta caagaggaag tcgaaagact tcttcgtctg 300  
 catttttcct ggaaaacgtg atgaactcgc taagcgcgctc taatgcgcta agcgagttca 360  
 ttaattaagc cttgaatgta tacatttcca gacgaactc 399

<210> 15877  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 15877

agcttaacca cagttttcag ttacacgtca gaatttttct aacccgacca cagcttacag 60  
 aaataaattt gcagtcaagc aaatgggaat gagacaatta tatttatggg cagggcaggg 120  
 ttgggtctttt gtgaagtact agtgtattat tacttacaaa tcaacctcta tgtagtagtt 180  
 gtacttaaca ccttttagaca cgtggacaat tctctttcat ttaatttgcg catacagcat 240  
 acttttttcc ttcttttttt tctttgtatc tttcattttc attaaaccac ctgcgatgag 300  
 tcacatctaa cagtaaagta aaacgaaaat atagcagaca aaggggtaga atgggtccatt 360  
 ag 362

<210> 15878  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 15878

tgagtacacg aagaatctga agtataaagt ctatattcta ttgaactcga ccaatgactt 60  
 gattcattgg gatgggtccaa tgaactcgcg ggtacatatt tatttaggta ttgctttatt 120

aatatttata aaacaaaata aatgaatta aacaagtttt cttagaagat gaattaaaga 180  
gataaaaata atgtaattta tattataaat taaaatactt taaaactctt gaggttgaga 240  
gtgggatttt gggccaaaac cgggggcctt ccgcaacgaa tgaagcccat gttgctgagg 300  
aatgagcagt agtaacaagt atgaagagat agataatcca taagcataac tgaagatgtg 360  
cacggtggtt tcaagttcaa tccttgtggg atggctttc 399

<210> 15879  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 15879

atcttgtgcc tctctttttc gtcacttga acttatactt aagcatatac ttgctttatc 60  
tcctaactca catacttact tgagcgtag agtcctttgt tttgcaggtc cccctcctat 120  
cctcttgaca aaggtctctt tcaaagccca cgtgcaaaat gcagaagccc acttcagcca 180  
catccaccct gatgtgtgtt agctcccgat tttggtaagt acatttggca tccaccatgg 240  
ggccgcagta aaacatatcc tgcggtctct cgtcaacttt tgtcaataga tccagacgag 300  
catctggatg ccttcogagc ttagctcacc taggcgagct ggttacttca cctctaagt 359

<210> 15880  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 15880

tcaaaatgtt acggaaaaag aatcagcaaa aaaagtgcaa gggggtatag ggggtgcaaa 60  
tagcaacgag gccacttgg gccttccatg aagttatcca aaaggcgggtg ccttctggag 120  
gaagcaacct agctcgcttg ggcgagctgg gtgacaatct tctacttctt ttgcctatga 180  
ataggggaag gagggaataa ctaatctgtt caaccctcct ggaatgtgat attcactcaa 240  
aattacggag aaaaattgct tccgcgaaga atatcctacc cgatgcactt ccgtaacgct 300  
ttcttgacct tttcgtgggt gataatgcga agatcttcaa ccgtacttca tcg 353

<210> 15881  
<211> 361

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15881

agcttccatt gttgagtttt tgcttccctt ttcacgcttt agttcactcc aacaagtaag 60  
tattcaatcc ttgatgtttt cagcttccca ttggtatatt ttcttcatct tttggtgctc 120  
caaattgtgg gaatatgctt gtatttgtgg ggcagttttg gtttggtttt atgcttggtt 180  
tcttagagtt aaggatttga atgagaagac cttangccta tgctgtattc tgaaacaatg 240  
gggcatgccca cattgtcccc atcctcttgc aatttatgtc caaacatgcg ctcaccaagt 300  
gctcagtga atgccccaat gatgtatgaa tatgattttg taaaattggg agagtgggac 360  
t 361

<210> 15882  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 15882

tctggtggga catcttgact tgctttccaa tctgacattc acttctagat tctgccttct 60  
tctattttca gattgggaat gcctctcaca gcaccttgt caatgatttt cttcatgcct 120  
cttaagtgca gatgtccaaa tctttgatgc catattttga cttcatcttc tttggaggat 180  
agacatgtgg aggagtaact ggtttcttga ggtgtccata ggtaacaatt gtcctttgat 240  
ctgctgccct tcattagaac ttcactcttc tcatttgc caagcattc tgactttgtg 300  
aagtttacat tgaatccttc atcacacaac tgactgatgc tgatcaagtt tgcagtcagt 360  
cccttcacca gcagtacttt gtccagacta ggaagt 396

<210> 15883  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 15883

ttcttcttat ccaaggcaat tcttgagggt gaagtcctt cttccttggc ttattcccta 60  
gtggatggtg cctccccgt cctcttctcc ttttgcttcc gctgcatctt catgggtggaa 120

aatcaccatt gaaagacctc attgaagctc aaagatccag cctccataga agctccacaa 180  
gcaagcttcc atcaagtggc aatcagagca caagagcttc aagtatgtgc tccttaaacc 240  
tacattaata tttttgctta ccttctcttc cattgttttt tattcatttt tgctccatgt 300  
atatcctcaa atgccttggt ctaaagtgtg ttaacatgat tct 343

<210> 15884  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 15884

tgttaaaaac ggaagaaaat gaaaccttta atgatcttac tgatgacgaa agcttaaaaa 60  
caagaaagga attaaaagtc tcggattcga aaacttacct gttgaagaac gaagaacgaa 120  
cgaataacga atgaagaacg acgaaaaacc ttcacggatt cgctcacaga aacatctcgg 180  
aaacgttacg gaagcacctc ggcttggatt ttcttcacgg aaacaatttt tttcacccaa 240  
aatagctgaa atgcatagct aggcggatct gggatcctta ccctttcgcc tatttatagg 300  
aaaaaggggg aggaggttgt cgcccagctc gcccaggcga gctgcattgc tatctctaga 360  
agcaaccctg cttccaaaat actcta 386

<210> 15885  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 15885

ttgagcttga cattgaggcc ttgatcactt aggcgattct agctcgtacc cgggatcctc 60  
tgagtcacct gaggctgcat cttacaggaa acccttcgca ttgtataatt tatttcccc 120  
atgaaccag agctgtcttg gtcaaactat gatcccgaat tcgttaaccg ttggatcatt 180  
gtgaaatttg gatatgtcgt tcgaaatata attgggcccg ctataaccgt tgtgatttgc 240  
gagatgatgt tcgtggaaag agaaaaatga atcctatgaa gatagggctaa atggaggctt 300  
caatccctct tacgtttctc ttatgttggg gaaccctatc tgagcagtca gaggagacac 360  
tggatgactc ttatggaact gctcaatatg ttttatctct ggctgaagac acgccactcc 420  
ct 422



<210> 15886  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 15886

tctcaacgcc ctaaacccca gaaaccccaa ctaataaaat tattccaaaa aaaattaaaa 60  
 aaaaataaac gcataaaaac cctaattgcac cagaaaattt caggaaaaaa aaaaacctac 120  
 caacacaacc ccatctttgc acttgatccc aataacagtc ctgcaacaaa gtttcaaadc 180  
 taagatcact accaatacaa aaattacaaa atcattttaa aaaaaaaaaac atactcataa 240  
 ttattaaata aactcttttt ttcaatttta aaaccacgaa tttaaaagta taataataat 300  
 aataataata ataataataa tgataagtac caaccgctg ttgtcgacgg ctttagcggc 360  
 atactcgatc tggaaaacgc ggccatcagg ggagaaag 398

<210> 15887  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 15887

agcttgtaag attatggggt acccatcaca tgtggtacta tgtggcggtc gggcgatggt 60  
 gcaaataaat tctccacatc cacaatcac acataagccc accatcccca gttgcccacc 120  
 ttcattgagc tcacgtactc ccacgtagcc cttatcctcg ttctctctaa cgccgggtcc 180  
 tcatgaattc tcccaagctt ccacaacatc caattaattc aacatcccag catcatgaac 240  
 taacacagtc aagaatacat ggcagatgca gaatactctg cccaaacaca aacaatatca 300  
 caattttctt acttaagacc cagaacattt ct 332

<210> 15888  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 15888

tgtataattc cccaatttat gggtattttg gagtttattt agtaaataaa tcttgtttta 60  
 tgggttaacgc tatctctaga atattttcat tggattgaat gatgaaatct gtgcattttc 120

aggtgaaaaa gaggctaagt tttgaattgc aaaaagtagc agttgggcta agcgcttatt 180  
 caccgctaag cgtagcttca gagtgccttag cgcaaaggag aatctggcag agcatcagga 240  
 tcaaagctgc gcgctaagcg tgagatcagt gtgctaagcg tagtaggtgc cttcagccag 300  
 gctaagcgcg agactggcgc taagcccaat tccacttact cgcgctaaga gcgaaggtgg 360  
 cactaagcgc aatgtcgcga tttcagggcc tat 393

<210> 15889  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 15889

agcttcttat tcaaggcaat tcttggtggt gaagctcctt cttccttggc ttattcccta 60  
 gtggatggtg cctccctat cctcttctcc tttgccttcc gctgcatctc catgatgaaa 120  
 aatcaccatt gaaggacctc attgaagatc aaagatccag cctccataga agctccacaa 180  
 gcaagcttcc atcaagttat gaccatttga atgtctcgag atcttccgtg gttcaatttc 240  
 aggcgtctcc atatgtcatg tgcctgaatc ggacctccgt aagaaaattt atgaccattt 300  
 gaacttctct agagcttccg tagttaattt cgagcttctc gatattctg 348

<210> 15890  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 15890

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60  
 tgccattcct tggattatag ggttgaacca agctcatgct tttacaaaaa ggttcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat taatcgagtc 180  
 acatcactgc ttcacttact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcttgcgt aaaaattcgc aataacttcaa ttgtacatca ttgcgatgca tccatgcttt 360  
 tcattggttg cattgctcgt tgcattcttt c 391

<210> 15891

<211> 345  
 <212> DNA  
 <213> Glycine max

<400> 15891

agcttggttc gaggtactta cccgtggaag atcgaagaac gatgaagaac gaatgaagaa 60  
 cgtcgaagaa cgattgaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120  
 cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt tttccaagca aattcgaaag 180  
 agagagaagt gcctaaaggg ctgaaccctt tgctttcttca cttcctcccc tatttatagc 240  
 acaatagggg aggtgcttgc cgcccagctc gcccaggcga gctcaactcg cccaggcgag 300  
 ccatgttgct tgctccagaa gcaacagtct ggagggccca agtgg 345

<210> 15892  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 15892

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 cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcgcgc tttgtggatg 120  
 tggaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180  
 ccataatcct acaagcttga gatgaggaag tgtaaaaggg tgaaacttcc tgcttttatt 240  
 gttgaccaca gagtgggtacc tggagatatg tcgcgggggt taggagacct cggggacgtc 300  
 aggtggggtg ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt 360  
 cggtcagtga gaacctgtga tgtacc 386

<210> 15893  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<400> 15893

ccctgctaca ttccatgctc aatgtcactt ttgacccttg ctcggtgttg gaatgggctc 60  
 attaaggttt aaaattcttt ttacggaccg tactcatatc gaaatgatac acaatgtcca 120  
 ttccaaactg tccttttcaa cacaaatgtt ctgaaaactt tgaagggccg atataagacg 180

cctcaaacca tattgaggga taatgattgg gtgtaact 218

<210> 15894  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 15894

tgtgcattca atatcctgat gaggggtgtc catatgttct caagactgga ctaatacatt 60  
tgctgcccaa gtatcatggg cttgcagggt aagatcctca taagcatctt aaggagttcg 120  
atattgtctg ttccaccatg aagccccctg atgtccaaga agatcatatc tttctaaagg 180  
cttttcctca ttctctagag ggactggcaa aatattgggt gtactacctt gctcccagggt 240  
ctattttcag ttgggatgac cttaagaggg tgttcttgga gaaattcttc cctgcatcta 300  
ggaccactac catcagataa gacatttcaa gcatcacgta acttagtgga gaaaacttgt 360  
atgagtactg ggaaagattc aa 382

<210> 15895  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 15895

tgcattctac tacttccaac aaaaactctt catttacttg gcatctcttc aattcacaat 60  
tattcacttc acacctattg acaatcgtgc tcacttttaa agcaatgatc aaatcaatcg 120  
tcagttatgc cattggaaac aagcaaatat taaataccac actctagaaa acgctataat 180  
ctaccttctc ctacaaatcc tctttcactt ttctgtccag actccacttc cacaccatcc 240  
acaaaatgaa cgcacatct ttaacagcat caagtgaagt aagtcattcc tactctcttc 300  
ttcacgccag caattgtttt ttcttttctt caaaatctac acttaatc 348

<210> 15896  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15896

nttcgattca ttctatgtac ccatgggtgg ccacattgtg tttcgtgtat ttttattctc 60

gtttcattta ctttttatat ccccttttga cgtgcttaag ccattttact taagtcattt 120  
 ctcgcttaac ttaaaaataa aataaatttc caccgatcgt ttgaattgta ttaaccgtta 180  
 acttcggtta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
 aaagagataa aaaaataata taataataaa aaaatacctt ttagtaaaat aaagcgggaa 300  
 atcaatcgga cgttttctct ttgggatttc tcattcttaa tgaattgac taataactaa 360  
 agtgaaacta aggctaaaat caact 385

<210> 15897  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 15897

agcttagcca tggcagttgg agagcacatg gccttctaaa ccccacaaat agaattctcat 60  
 acattcaaag ctaaattgtca cttttgatcc tttatgtttt tgagtttggg tacattaagt 120  
 tttaaaagtc tttttttggg ctttactatt ttgaaatgt tacatttagg tccttttttg 180  
 aattctccgt ttacgacgct agtgttctgt taacttttta attcagatat aatacttcac 240  
 aaaatatatt gggggataat gcttgagtgt ctctatctat gacacactca gctggagcgt 300  
 ttatatgtat tagatgacac aaagggtcaac aagtgcacaaa gagagc 346

<210> 15898  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15898

ttatcaaaaa tcttttctct ttttctctcg actattcttc attcttctcc ttcttttcac 60  
 ttttgttctt cctttttctt gcacaaatta tgtggctctt ccaactggtga tgatcatgga 120  
 aggctaaaca ctcaatcaat ccaaggttcc actccaagca aagcctaatt tgagtttttg 180  
 ttttagtatt ctaatatgtg tgaatgctca tctttttctt caatcctatt ttcgattttc 240  
 atgattatga atatacttag gattgaaaat gaaatagttt agggattcct ttcctaattt 300  
 cgactttaat cacagattgt tttagatgat attccaacct aatttgatgat ctcaatgaat 360  
 ttatggatta atttgattga aacaactcta atgacattga 400

<210> 15899  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15899

agcttgtgaa gattacaaaa catcttatat agcttgaaaa tttatatgag cattgtccgt 60  
 tacctaaaat ttatatccgt caatgactta ctaggaatcg gatgtgttaa ataatcaaat 120  
 ataaatctta ttaatatcca aaagagcact ataacaaatt atacattctt tttcttgtat 180  
 tgcccattat ccaccaaca atatacaaga caaaaaatta tctttattat gtgactcaca 240  
 agttatcatg tgttatttac ttggtctata ctttaatgtg tatcanatac accctattga 300  
 atcgaatcca gatgttcaat caaagagtat attattgtta caacttatac atta 354

<210> 15900  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 15900

taatggcaga gcctactatt gcttttccct ttggcggaac aacttccaaa tattactcac 60  
 acatttcctc ccaatcatag taggttgac cagtgattgg cctactgtcc acccttatgc 120  
 caagctgtag tgctacatcc tccagtgtaa ttgtacattc tccaacagaa agatgaaaag 180  
 tctgtgcctc tgggtcccat gatcaatttt gaagtggcgt aattttgcc aatcagcaaa 240  
 ctcagtatga gcaagcaaca actcaattaa aggggtgagga gcgggcatca aatgagaata 300  
 caaatgatt attgctactt gtccctataa aacaaaagat acattttcat aattgtcacg 360  
 acaataaaaag gttataatat caattaattg gtacttacca tgtt 404

<210> 15901  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 15901

atcttcataa ggccttgtat gggttgaaat aggcctccag agcctggaac aagagaacag 60

atacttttct cttacaagtt ggattcatga gatgcactac tgaatatggt gtgtatgtta 120  
aaagagaaag tctttcagac atcctcatag tgtgtttata tgtggacgac ttgttgataa 180  
caggaaaaga tttcaatgct atctcgacat ttaagcaaga gatgaaatct gaatttgaaa 240  
tgtcagatct tagagaatta tcatattttc tgggcataga gttcaagagg acaaaggctg 300  
ggatttttat gcaccaaagc aaatacacia ctgatgttct aaagagggtt caaatgtttg 360  
act 363

<210> 15902  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 15902

tgccagcagc aacagatttc ttgagatgaa cgaggacaag cttcttgtag gttgcaggca 60  
actccttggtg cttcccttcg atgtatttgg ttatcgcgta ttggctcgaa ccggttctct 120  
ctttcagact cgcaatcgcc tctgctatca tctacagaat aatcaaatta aatacaattg 180  
gaaaagaaat aaactaagag aattgatttt gaaggagagt attttgggaa agtaccacgg 240  
cgaagggagg gtgggagagg ggcttcttgg acgacgccgt tttcttggcc ttgggttgcg 300  
atgcggtaga catgatgatg gcttgattga aactcaaac gaaaaaggag taaccgttgt 360  
tgaaattgaa acaagagata gatagaaatt ctgagagaga g 401

<210> 15903  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15903

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaaa actgtgtcat caagagaatt aggagtgacc 240  
atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcattcctc 300  
atgagttctc tgcagccatc acaccacaac anaatggcat agttg 345

<210> 15904  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 15904

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 aacaagtttt tcacatacac aaagcgcgca taaacccacc atcccctatt gccacacctc 120  
 atctgagctc acgtactccc acgtagccca tctcctcggt tctctgaaca ccgggtcccc 180  
 atcaatcctc ccaagcttcc acaacatcca agtaatacaa cattcaaaca gcacaagcta 240  
 tcacagccaa gcaaaacaga gcagaggcag agaactctgc caaaacacca accagatcac 300  
 agcttttctc acttgaagac cccagtacca attacttcga tccaattcgt taaccgctgg 360  
 atcgactcca aaattttact ggaagtctat agtacataac cct 403

<210> 15905  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 15905

agctttagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ctttccacat ccataatgcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatcct cgtttctctc aacaccgggt 180  
 ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240  
 gctatcacag ccaagcaaaa acagagcaaa ggcagaaaac tctgctcata caccaaccaa 300  
 aatcacaagc tttctcactt aaagaccaca gtaacaattc cttcgat 347

<210> 15906  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 15906

ttgagaaaca tgtaaccctt tggcatcatc aaaacattca gcttgatcct ttgtctacaa 60  
 tctccccctt tttgatgatg acaatcctga aatcaagaca agctatatac aagatgatag 120



cccgttcaca tagcccttac tccccctatc ttttggcatg tatgcctaac tttaatgatt 180  
 ttaattgatt tctaacccaa gttctctccc cctttggcaa catcaaaaag aataagcaag 240  
 acaatcaata gataaacaga gtcaaacatt aaaccaaagt aaatccatac attgtcataa 300  
 tcaaccaaag caaagtctag aaatataata atagtgaag attacgataa ctagagcaac 360  
 aaagagccaa atacacggtg ata 383

<210> 15907  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 15907

atggattgga acctcaattt tattgtctct gtgcgagggg catttttttc tctacaaaca 60  
 ttattttgca aatcccaacg gtgggaatat gcggaaatga gttcccaaag tgggtgtccaa 120  
 attttatgat gtcceaattg ttaatgaata tgggatcata gttttactta gacaagtttg 180  
 ggtgtatg 188

<210> 15908  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 15908

tcagagctag ggagacatct ctaattctag tcagtttgag ccttagatta gggagatgat 60  
 ggatgagaag aacattgttt ggtgataatt ggaatagaag atcaaaagag atgatttaca 120  
 aaagcctgtt tggggaattg tagtacatta taaaaccaac acaaacatgt taaaatgatt 180  
 tttggcttga gaaatcatac attcttattg tattgtttga ttggaatcca catgaaaaag 240  
 agcgtgtatt gagttaaaga ggaaagttag ctcaggagtc aagactagaa gtgtttgtgg 300  
 ttcaacttgc taatttggaa tggattttag ataaaaggtc atccaatccg aaaataaaag 360  
 tacagcttag tttggattta tttgaataca atat 394

<210> 15909  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 15909

agcttatcta gttttaatgt taggcctatc gaaaattgtc tggacctgca aacttgacat 60

tcttgatatt gtcttaggca cgaaggggtg gttaaaaata aagatctccc acattgcctg 120

ggaattcaaa caaaatactc cttatcttgg gtttaaataa catccacaac cacaattgtg 180

gctacaatac caatgtatct tgactcatca caatgcaacc gcaaccgtaa ttgtgatcgc 240

atcagctgca ttttcccgta atataaaagg tttttaactc acctaaatgt aaccaccatc 300

acaaccacaa tttaaacaat ggttctataa aacat 335

<210> 15910  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 15910

tggttacctc cttcttcaat acatcaagaa tcatcggggt gagtcttctt tgtggctgtc 60

ttactgggtt agcccatcc tctaaattta tctgatgcat acatgtggat gggctaatac 120

caggaatgtc cgccagggtc cagcctatag cttcttatg cttcttgaga acagataaca 180

acttctctc ttgctcatca gcaagggagg catatataat tactggaaaa cttttgcttt 240

tatccaagta agcatatctt aaatttgatg gcagaggctt caattctggt gtgggcggct 300

ggataatggt agaaagagat ggtttctcag cctgtacctc ataaagaaag tcagagggtat 360

gtgtacttcc tgaaacatgg ttaattctat ctg 393

<210> 15911  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 15911

agcttatgcc tcatggccag ttgactgtgg gggctcacat caatcctaaa ttagctcctc 60

attactatgg cccttttaag gtgttgagaa aagtcggagc agcggcctac agactttctg 120

aatctgcaag gatacatctg gttttccatg tgtcactatt gaaaaaagct gtaggtgatt 180

acaatgttga ggagacactt cccttcctt ggagttggtt agtgacaatg cagcaagtat 240

ggaaccagag gcagatttat aattagctcc gcctctgtaa cattaagcac catctttttc 300

ctaagaaatt tatatactgg gtttctagtc tgggtatttt gctttcatg 349

<210> 15912  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 15912

ttagctctca acccaaactc tcctcacaaa atctgatttc aggcttaa at aggtggcatt 60  
gttcgtgctc gtgcgcttag cacaattctg gaccgcttag cgcacattag tgaatttcgg 120  
cttagcgctg gcctttctcg cttagcggat ggactgaagt ggtgcgcttg gcaaacctgt 180  
acagctcatc ttcttccaga ttcttccttg cacttagcca atgagtgttg cgcttagtgg 240  
acgctcgcta agctagcgga ttggcttagc gagaagggtga aaaaaccact tttcaaagct 300  
tgcctaatta acctgaaatt gagagaaaat gattattaaa cacataaaac agaattacta 360  
agtatttatt acctatcttt aactaaaaga actt 394

<210> 15913  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 15913

atcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60  
tgggtacctg agatatgtcg tgggggtcag gagaccttg ggacgtcagg tgggggtgcta 120  
ttgcccaaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcgg tcagtggaaa 180  
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240  
acaaagcaag gatgcttgtg gtggctggcc agctgtgaat tttgtgta atgtggatta 300  
tggcctctgg taatcgatta ccaatggtgg gta 333

<210> 15914  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 15914

ttgagccaaa atcttgactc accataaacc ttgttccagg gtgagaatgt caatccttac 60

cctcagaagc aaaaaaagaa gagaaggaaa atttccaatc aaaggaaaaa ggagaaggaa 120  
aatttccaat caaagaggaa gcaaaaaaag gaaagaagga aaatttccaa tcaaaggaaa 180  
aagagaggaa aggaaattcc caatcaaaga gtgggagaaa gcaaaaagaa aagaaagaaa 240  
attcccaatc aaagaatggg agaaagaaaa aaagagaagg agaagaagga aagaaagctc 300  
atgatcaagg atcgaaagaa aacaaaagaa atgtgcagag aggtctttgg accagacaat 360  
atctgaacaa tacggaattg tcaccaaattg aacaaaagaa 400

<210> 15915  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15915

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aattattgta atataatcga ttataagctt gtaataatca attattgttt caaagacaag 120  
tttgaattga tataatcaca taaggcttac tctcatattc aattattggc ttgataaaag 180  
tgttccatag aggaatttga cgaataaaga atatctaaaa gaaattttta ctntttttga 240  
aaaccttaat tatattttta ggtttcaaaa tattttttaag ccaatctagt tcaattttga 300  
agccttaatn attaaacgac acttagaact ttccctcgttt t 341

<210> 15916  
<211> 383  
<212> DNA  
<213> Glycine max  
<400> 15916

tcacacattt cttcaatggc ggactgggag gtgtagata aattagaatt gttttccgat 60  
ggtggtgaaa ttcaaatggg atggctgtag gagaaggctg atggtggtga cctaatttag 120  
ggggttgaga aagaatgcat aggagttgat gtgatgcaag atagaggaaa cacatctcta 180  
ggttgcaaaa ggttgtttgg agggggttca ggtagggca gaaaggctcg accaaatagg 240  
gattcataaa tcaaggaagt ttagggataa ggagaaagga aaatagggtga ttagggcagc 300  
agacctaaa agctccttca ctaacatgga aagagggcta gatatgtact atcacatacc 360

tatagcaaag aatggggaga caa

383

<210> 15917

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15917

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ttgtcttgag cctgagactt gtcaataaat attctaacag gtttaagcgc aaatatgacc 180

cattttcgcc attctccgga aagaccttag actgtcacct gggttttata aaactggccc 240

ttgacttgga ggatacaatt tagaccaaac cagtagctaa tccaaatgga tgttgcgctgc 300

ttttccggat aaacgtttta agtaacaaag ttccttattc gcagggacaa acttttttgt 360

gtgctagaag gcct 374

<210> 15918

<211> 379

<212> DNA

<213> Glycine max

<400> 15918

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tccaatatgg ctcccgatcg cactcagcta cagaacatgg ttaagaagga aaggagagacc 120

tttaaagagt acgcacagtg gtggagagac ctggcagcac aagtgtcct cccatgggtcg 180

agaggagat gattgctatg atggtagaca ccttactggg gttttactat gagaagttgg 240

taggctatat gccctccagc ttcgcggaact tggatattgc cggggagaga atcgaagtat 300

gtttgaagag agggaagtgc tattacgtct cctccacaag taccaatact aggaggatcg 360

aagcaactgg ggcaaaaag 379

<210> 15919

<211> 347

<212> DNA

<213> Glycine max

<400> 15919

atctttttga acgtcatggg aagatcacaa aggtggttct tccaccacca aagtctggac 60  
 aggaaaagaa cagaattggc tttgtacatt ttgcagacag gtcaaagct atgaaagcac 120  
 tgaaaaacac tgaaagatat gaattacaac gtaacatatt gtccagcctt ttgtggttat 180  
 tttatgtgaa tgttgggtcaa taatatttaa ggtttgttct acgtttcagg tcaactttta 240  
 caatgctctc tggcaaagcc acaggctgat caatagtctg gaggatcaaa cacacagaag 300  
 ccaggaccag gattgcttcc aagctatcca ccccatgttg gttatgg 347

<210> 15920  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 15920

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 aacaggacct ttatttttagc tgttgttgct gttattaatg aatacttctg ctctgcattt 120  
 ttaggtttcc tgcacgaatt cagaggctca ggttgatcgt ggggtgcaga agaaagagac 180  
 tttcttttga cctgccttct aagctttagt aagggtgtca ccttaatgtt gagttctggg 240  
 aataacttga acagtagcag cagcaacagt gggataactt ctttagatat gccacccttg 300  
 ccccatgtgt taccactaga ttcacttaca gtacgcaata gaaaatatac aggagagctg 360  
 aggaggggtc ttggtgtgtc tgct 384

<210> 15921  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 15921

agcttctgtc ctttgctaac tattggactg aatctcggtc cgggcaatta aaaagatggg 60  
 actgtacctg ccgaggaaga gggcttcttc gagggcgcag cggaggctgg attcctgggtg 120  
 gccaagccc tcgaagatc cacagtgttt tccggggcag tcgatgcggg tgccccaata 180  
 gaggtacttt tcgaagggct gttgttgtcg tcgctgtaag aggttggtt tcgagacggt 240  
 ggttgaaaga agagaggaga acaggaagag aagcgcaatc gctgtcactg ctgccgcgag 300  
 gagcagaatt cgggatctcg cgga 324

<210> 15922  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 15922

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 agtgggtctga agatgaaaga agattagtgc agtacaattt aaaggcaaaa aatattatta 120  
 cttttgccct aggaatagat gaatatttta gggtttcaaa ttgtaagagt gtcaaggata 180  
 tgtgggacac tttaacaagtt acacatgagg gaacaactaa tgtcaaaaga tctaggataa 240  
 atacttcaac tcatgagtat gaattattta ggatgaagac aaatgaaagt atacaagata 300  
 tgcagaaaag attcacacat atagtttatc atcttgcac attaggaaga actttttcaaa 360  
 acgaggatct cataaataaa gtgttaagat gcttaagtag agaatggcaa ccaaaggtaa 420  
 caaccataac agaattctag 439

<210> 15923  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15923

agcttattat atgattagat cttatattgt aaagtgtcac tatgaatctt cgtgaaatat 60  
 gctaaaaaag tctatatgat agtcattaat aattttctag atgcttttnt aagggaccac 120  
 taaaagctta agttaaacga agacacatca tgaatgattt gttacatctt taacaaaccc 180  
 tagcacacaa gagccactct agcttcgaag cctaaataat gcgcatgtcc ttctatcatg 240  
 tgctgatatt ngagtttggt taaaaatagt gaaggctatt angtaaacac acgtgaatga 300  
 ttctatatta catctttaac aaaaatacga cgctcaagct aaagacatgt ttctatatat 360  
 ctgnttacac tggaatttgg taacaaccgc tagtctaagt aa 402

<210> 15924  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 15924

tatataatac tcacgctgct ggccgaaact atggatcctg ttaaaataaa attgtttcac 60  
aaatcgactt cagataaatc agatgagata cacatgcaca ggcacaataa attctaaata 120  
aaatcattct ttttacatct atttcaagat gaaataaatg atattctgaa caaactaaac 180  
atgcaagagg cataagaagt ctaccacaca acattaaagg agtggttggc aattggtaga 240  
agtgaaaatt ggaggaataa gaatgaaact gagtatctgg ggttttagact tatgttgtgt 300  
ctgaactcgt catcaatctt cactccactt tttccttttc gcatatatac aaagcacgcc 360  
gagagtatca ttataaacia aatcatatta ccccttatgt gtctatcttt cttagaatat 420  
gagctactta acc 433

<210> 15925

<211> 442

<212> DNA

<213> Glycine max

<400> 15925

agcttgtatg agtactggaa aagattcaag aaattgtgtg caagctgtcc tcaccaccag 60  
atttctgagc aactccttct tcaatatttc tatgaggagc ttagcaacat ggagaggagt 120  
atgattgatg ctgccagtgg tggagctctt ggtgatatga cccctgttga ggctaggaat 180  
ttgattgaga agatggcttc taactcctaa caatttagta caagaaatga tgctattggt 240  
cttagaggag tccatgaggt ggccacgaat tcactctcat ctactggaaa taaaaagctt 300  
gatgccttgg tcaacctagt aactcagctt gccatgaata aaaaatctac accttttgca 360  
agagtctgtg gtctatgttc ttctgcagat caccatacag atctctgtcc ttctttatag 420  
caatctagag tcaatgagca ac 442

<210> 15926

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15926

tgtgactctn ggcaatttct ttaacaaaac cagtcactta aaaagttatg acttttgaaa 60  
gaatcttcag aaacaagtca cttgaagaat tgtgactttt ggaaatgtgt ttttcgaaat 120



cagtcactgg taatcgatta ccattaaggt gtaattgatt acacatcaac agatgtgact 180  
 cttcattttg aattttgaaa atcttaacgt tttaaaacac tggtaatcga ttactacatt 240  
 ctggtaatcg attaccagag aataaaaactc tttggtaatg attttgtgaa aacttcttgt 300  
 gctactcaat gttttgaaaa actntttaat acttattttg attgagtctt ctgttgattc 360  
 ttgaatcttg agtcttgaat ctgatcttg attattcttg aatcttgaat cttggaactt 420  
 gattcttgaa tcttt 435

<210> 15927  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15927

agcttgata gtccncaat ttatggcat tctggagtaa atttggtaaa taaatctttt 60  
 tttatggta acgctgtctc tagaacattt ccattgaatt taatgatgaa atntgtgcat 120  
 tntcaggtga ataaaaggct aagttttgaa ttgcaaatg tagcagttgg gctaagcgca 180  
 tatccaccgc taagcgcgct tagcaciaag gagaatctgg cagagcatca gcatcaaagc 240  
 taggtgctaa gcgcgagatc agtgcgctaa gcgtatcaag tgccttcaac caggctaagc 300  
 tcgagactag cgctaagccc aatttcactt actcgcgcta agcgcagcgt cagcatttca 360  
 gagcctattt aaagcctgtc ttgtgtagaa tganggtacc acctttacca cctttatgac 420  
 attnntatga cagcttctac ag 442

<210> 15928  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 15928

accttaaaac tcagcttcac aagcagcttc catcacttga taggttagat ccttttatct 60  
 tcttcgaagg gacataagta tatcttgggt gctgctgagt atttcaccaa ttgggtggaa 120  
 gaaattcctt tgaatgttga tcaaggggat ataataaact tcatagaaca aaatattatt 180  
 tttcgattta gtatcccata aacacttata acaggtcaag gcaccatttt tattgatcga 240

aaagtgggttc aatatgtcaa ttctcaaaat attaagttag taacttatac cccttattat 300  
gctcaagcaa atgggtcaagg tgaagccata cacaagaatt tggtaagggtt aattaagaaa 360  
catggccaaa aacctagaag ttagcatgaa agtttagacc aaattctcta tgcttatcaa 420  
aattcaccaa aagggggcca ctattgt 447

<210> 15929  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15929

agcttattga cttccaaata taagtcttta aactgcacat tgagctactc ttctaccaag 60  
aaagctttta tacataaaca tttggctgaa atattcccaa ccaataaaaa catgaagttt 120  
cacttggtgt gtcaaaactt gaacaatagc acaatcaaat aaaaacatga aattttactt 180  
gttttgtcaa aactacccaa taaggaagat aaatcttctc ctcggtgaga taaactaaat 240  
tagttgcgta atcaactgca actgcttaat cgtgatacgt cttgttggtg agataaacct 300  
aattgagtat gctaacaggg tgtgaatata aaagaaggag aaacatgagg gataatgcat 360  
accgtaggca ccaattntct ccaggcagca acatgttgtg ggaatgcaaa aaatcaaaat 420  
gaatgagata ggctaattgga g 441

<210> 15930  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 15930

tatcaaacat tagtcataaa gtgataagga ggtgatttct tcaaatagat cattagcaga 60  
aaagaataat aattgttcac acttcacagg aaacaaaagc tatgaaaagg actgaaaatt 120  
taaacagcag aatgagtttg tacctgtaca aacttggtgcaa agccagaccc aagaggggat 180  
ccaatgtaca gagccattga agctccattt agcaaggatg cgtatactag ccatggcccc 240  
atcatccgtc caagattagt gggccagcac actacatcac ctttacgaac gtccatgtgg 300  
caccatgcat ctgcagcagc ttttagagag taatattggt ccatggaatt gcctttggat 360  
cacctatacc accaaatgag gtacattata ttagcttttg gctagcttca tatggtgagt 420

gaagtcttgg tat

433

<210> 15931  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15931

tgcttgtaa catatgccaa catgtattat atgtcactat agcctacacc taaattatgg 60  
aaaatagttt aattcattta atattatata aaaaatntaa agcaatcatt aataattaaa 120  
ataaatntaa gaataaaaaa ataataattc agaataaaaa attaaaataa atttctttat 180  
tataatcata aatatctatt taactacca ttaaaattta aaacaatcat aagtaattaa 240  
aataaatttc attaataaag tcatgacctt aatatattat aaatatctat ctaattaaac 300  
atataaaaac atcaatatat taatattata aaataatgac aagagaaaaa acttcataag 360  
agagaatgca ctcttcatat atntcacaac acacataatg taaatgtagc attctctaca 420  
tattctcggt actaattag 439

<210> 15932  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 15932

tccaacattt actcgacacg tatcaaatac agatttttaa aagtctttta tctgattaac 60  
ctcaatgaac gtgcaggcat ttcacgttgg catgcgtgaa atgctgcaca aacatatgag 120  
attaaggctt gggatctcaa atttctatgt taataataat tatgtcaaca aggagctat 180  
atggagggta cgtgacgaga ggatgagcaa agacacttga gatgataagt tgtgccttct 240  
atgtcaattg tcaactcctt tttaattcta ttgaataata aaaagaaaag tctaaaatga 300  
taattactta taataaataa tgtctacgaa cattacaagc tgagattacc tctcaaaaat 360  
aagacatgtt aaaattccac gcacacctta atggcaatat atacttttat gttgtttgat 420  
tgctatata 429

<210> 15933

<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15933

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agtcttgccg cccagctcgc ccaggcgagc aaggttgctt cctccaggag caacagcctt 60
ctggaggaat cttctggagg gcccaagtgg gcctgggtgc tatttgcata cccctttnta 120
ctaaatgcac ccccctttct attttttttg taattctttt tccgtaacgt tacgaaactt 180
tacgaatttc gtaacgatac ttattttcct tccgtaaggt tacgaatcct tacggattat 240
gtatttactc tttnttagct ntcgaagaag ttacagaaac tcacggattg cgcanaaaca 300
ccttttttcg atttcgcgca cattacgaaa tntcacggat cgcgcaagcc tgcttccttt 360
tgatttctga gacgtctcga gacctcattt attgcatgtc atctagtaat aat 413

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<210> 15934  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 15934

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tctactgcaa taagagttag ttgggtcttg ctatttagta gaaaagggtg ctagagagta 60
tatgccacga ttttaattatg acatacaata gatatttgag tttttctctt aaaacttgtc 120
acattgtcac aatgcatatt agtactaaca ttatttccag ctacttgtga aatatctcta 180
gtggtaagaa agacagacct tactatgtat ccatgcctct cacgtataac tcatgatatt 240
atatagatat ttttttgaag gtcagggctt aaaagcctga acactatctc aattgtgggt 300
tttatcctcc tcatattgta gttaggcctg gatagccacc acatacgtca aggggaggca 360
ccaccacttc aaggcgacca atagtattct tggcagcatt gtctgggtat tcccgaactt 420
atca 424

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<210> 15935  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15935

tgcttgtaat cgattacaca catactgtaa tgcattacca gaggagattt tcagaanata 60  
 ttcttaacag tcacatcttt tcatttggtt cttaaaggc tatcaaaggc ctatatatat 120  
 gtgacttgag acatgaattt gctaagagtt ttcagaacaa aaagatctta tcttcttaaa 180  
 aagaaaaatc gttttatcct cttacaaatt ccttggccaa aacacttggtg attcaataag 240  
 aaattatttg agtgcttaaa ttgttcaatc tatctctttc aagagagatt tcttcttctc 300  
 ttcttcttta ttctgaaaaa ggattaagag accgagggtc tcttggtgta aagaaatctg 360  
 aacacaaagg aagggttggtc cttgtgtggt tcagatcttg taataggaat ttacaagata 420  
 gtggaactct c 431

<210> 15936  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15936

tgatcaaaac aattatctaa tcattccaat ccaactcttat catacagttg ctcatcctaaa 60  
 tcattcgag acactcgttg catacaaaac aaaccactgc atatcaaatt caactaatc 120  
 actgttcaaa caagctttct gtacaatcaa tcaactcaaa gtactaaaat ttaaataact 180  
 aaaatttaaa gaactgaaac ataaacattg aaatttaaat gactgaacat aaatcataaa 240  
 ataactgaaa taaactaaat tgttcaaaat gcacaaattt aaatgtcttg ctctgtgca 300  
 tgctcattga gatccaacac ctgagcagct agtgaatcct gagggatagg ctgctntagg 360  
 tcagatgctg gtgcagatgg catggaatca tcangtatgg gtgctggaga tggctctgga 420  
 atctggtctg tgg 433

<210> 15937  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15937

tattttgtag cntncaggac ttcaaaaaag ccaaagattt ccccatccta gttctaaatt 60  
 tcaaatgcta tgaaagctta atttaaaata tgtgtgcacc ttggatcaca atgtgtgcaa 120

tttctaaaat ggggttcaat ttaatataac aaatagcgat gtacataatg tttgtacaca 180  
 tttatatatg tgtggcataa tgaattttac tctgtacagct tcaggataac atggcaaggt 240  
 tcaggctcat aanagttata gcaccaaact tgctcggtatg ccttatacaa acataaggtg 300  
 aacccgaaat aaacccaaaa agcattccct atgtcttgct tattcagctt gtttagttca 360  
 tttggatatt ggcaaccttt tcaattaagg aattctatag tgaacaggac atatctg 417

<210> 15938  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15938

tgctgtgact tcactatttt gtttttaaatt attatattgt aattttaaaa gaatatacgt 60  
 tattatatgt tataatatta taaatgttaa ctcttttaatt aaattataag tgttaaagtt 120  
 aatattatgt taggggttta gaaatttaaa taagttatta gataataata ttttagagtt 180  
 tagtctttta ataagttata agatttaagt tattattatt ttaggggtta gtcttttaatt 240  
 aagttttaag ttacatttgt attttttgac agatggctag cgaagaatcc ataataagag 300  
 ataatgttaa cgatttcagt gacgatgagc tacaatatga tgttcacaaa catgtagaac 360  
 caaggaatca aagtgaagttg tcttcatatt ttgaaactat tagtagccaa cnttcagaaa 420  
 tcaagagtac t 431

<210> 15939  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 15939

agcttttaggc taatataaac gacaataact atctactcgg atgtctgac gagtcccgt 60  
 atatatcaag acgctcgaca ttgaatgttg aacctatgag cccattcaca cgacattaac 120  
 tatttaattct gatgtgtgat tgaatccgt tatatatcga gacgctcgaa attgaatgtg 180  
 gaagctttac gcaaattcaa actacaatga ctttttactc agatgtttta tcgactccag 240  
 taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca tacgacaata 300  
 actgtttact cggatgtctg attgagtcctc ataatatatc gagacgctcg atattgaatg 360

ttgaacctct gatccaattc atacgacaat aactttctac tcggatgtcc gattcagtg 420  
tgtaatatat cgggac 436

<210> 15940  
<211> 763  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15940

gccccgacag agcgacacan agcacagtcc agatagacta gcaaccggga ccacgacgag 60  
ccacacncac cncnccccc agagcgagcg canattgaga ccatcgcaan acccngggcn 120  
cnanacaaaa aacgccgacg tgacacgana cgcgaggana cctctgcata cagacggcga 180  
atatatatat ctacatcacg cccactcac tcacgacgat gaagtggaga ctatacgaca 240  
cgaacaccat ctcaactca gacacgagga ctccaatacc acgtagacag aacatggacg 300  
tctaacnaga cacacagccg aatgncacga gccagtcaag atcacgggcg ccacaccata 360  
cggcgatata ggcacggaca cacacgagag agggcgacaca cagcacacac tactcgctc 420  
acgcgtacat ctgcagacca cgcgcgacg acgaagtaat atgaaccagc acacgaacga 480  
accgccgcac acgcactcac cagcatgcag cgtaacgcga gacatccgca caccacgnag 540  
cacaagatac cgcaccacgc accactacgt cgcctcacca caacggagcc acaaccaaga 600  
cagactgcgg tgagaagcac agcacgcaat cgcattccaga cngcacgcga caacgcgcaa 660  
gcgtcagcca cgtcgcgatg accgcacaca acaccacaan gaccatacac cgcganagag 720  
cgacaccgac acgcatacan gacaacacga ccgctcacga ccg 763

<210> 15941  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15941

ttttcttggt gaggctntag agaatttgg ttgtaagagt ttttgaggc tttangaaag 60  
ataaactacc acggttggtt gcttggtctt aattaagaaa gtctacaggt gtatgtatta 120  
aagtagccta ggttggggtg aaccaatata attccttagt gtgttggttc cttccttagt 180

gcttcttggt tctccttggt attataaact taaagtttgt tttgaaaag ccttgttttg 240  
 aaaagtataa ctgatatttg atcaaaagggt tttcataaaa tagttttatt attcaaaagc 300  
 aacacatact ctaagtaagg aaagtcanaa ctaagatcaa aagaatttca taaactagtt 360  
 ttgttattca aatggaaat 379

<210> 15942  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 15942

tcactactcc tatgtattct tctcaaactt tactcattct ctgcatcctt tcttcattgt 60  
 cataactcat tcttctgatt tgatcaccaa gtttaaacat cttcgccatg agccttgctg 120  
 tgittgaaga tgggtggagga gcatctccac ttgtagaagc catacctaca aggatagtta 180  
 gtgcacaagt aataaaaaaaaa taggacctca ccaactcaacc tagtgtttca ctcaagttca 240  
 ctcgtgtatc acttttttcaa ggatttttct tttataatat gcactcttgc cttttaccac 300  
 tcttgctcct cttcagttct taagcaaaat cttcaagctt aaaatcaaga agtattcaat 360  
 gtgaaatatg tcataaatca aaactcaact caagaagcca agaatagaaa tactctaaga 420  
 caaaac 426

<210> 15943  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15943

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 cggtttctaa tgactcctct gcggcttcca cataaggcat agaggatggg cagctcacca 120  
 agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180  
 ggtggagtgt tgagggaaca actcctactg agtggatcca cgggcgcccc aacagacagc 240  
 tgtagggggg gttaatatcc attatttggg aggttaacttg acaggtgtga gggcctatct 300  
 gtactgngag atcgatctct cccctaacct ctcggcgggt gccgtogaag gcacgaacca 360



ccattgaact tggtttaagt ggaggcattg aaccatatca tgacactttg gtacatatgg 420  
ccata 425

<210> 15944  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 15944

cttgagccaa aatcctgact caccataaac ctttgcccat ggtgagaatg tcaatcctta 60  
ccctcggaag caaaaaagaa tagaaggga atttccaatc aaagaaaaga aaaggaaaat 120  
ttccaatgaa agagaaaaaa gaaaagaaag gaaattccca atcaaagagt gggagaaaca 180  
aaaaagaaaa gaaagaaaat tccaaccaa agaatgggag aaagtaaaaa aggaaggaag 240  
ctcctggtca aagaaaccag aagaaatgtg cagagaggtc tttggaccag acaatatctg 300  
aacagtacag aattgtcacc acatgaacaa aaaggaagga aaggaaacca cgacctaaaa 360  
tgggtcttctc cctttaatta ccaacaaaa tcccggtgcgc tatgcgacct tttttctcgc 420  
cccgactaa acaa 434

<210> 15945  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15945

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gcctttaacc ttgacttgggt aaaacctctt gccggtttga ttagtcccca tgcttactaa 120  
agtgaacaa aaagctggtg caaatcaaaa ctccgatatc tcatgggtgg gatggatgaa 180  
tgcatgaagg aatgcatatg acacagctgt attttaagaa tgcgggtgcc cgggacattg 240  
tctccttttt agacacaacg tctaggggta gcaaagtgcc ccaatgtatg tatttaaaac 300  
ggtgaccggg accctacatt gattntgtct atagagggga tcaagacaga acccctatgc 360  
aatgcatatg caaaaggcgc aatagcatga naatattcac tgaacataag caagagggta 420  
tatgatattt atgcatg 437

<210> 15946  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15946

tgcctcgaag aggtccagga aggacaaggc agccgaatga tactagtacc gctccggagt 60  
 atgatagtca ccgcttttagg agtgctgtac accagcagcg cttcgaggcc atcaagggat 120  
 ggtcgtttct cggggagcga cgcgtccagc tcagggacga cgagtatact gatttcagg 180  
 aggaaatagg ggcgcggcgg tgggcatcac tggttactcc catggccaag tttgatccag 240  
 aaatagtcct tgagttttat gccaatgctt ggccaacaga ggagggcgctg cgtgacatga 300  
 gatcctngt aaggggtcag tggatcccggt ttgatgccga cgctatcggc caactcctan 360  
 gatatccgtt ggtgttgga gagggccagg aatgtgagta tggccagagg aggaaccggt 420  
 ctgac 425

<210> 15947  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15947

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 aggagtaacc tacagtaata acaaattatc tcatgaatat atcattccaa ggctcattat 120  
 ttctcacgaa acttattcac cattagaaac aaagaggatt tacctttctc caactatgac 180  
 caagaaattc attcacagct atagcattct gtccatacat cagtgggtgag gaccagtaac 240  
 cccacacaaa ccatttgtgc acattctctg gctcanagaa cagaattatc atgataaagg 300  
 ttcattacac taatcaactn tgaagttaca ttaccatttt cttacctcgc gaaatcacia 360  
 atcctccan aaccagaact ataagtaatg canaacttcc aacagtatnt gcaactataa 420  
 catcccttcc gaatg 435

<210> 15948  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15948

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tttggcaaag gaagaagaag aagaagttca aagagactct ttggttgaaa aagaatatat 60
gaaaaagttg tgtaaaagtt ttgcttttat agactcttca tgtctgggtca agaaaaccat 120
tagaagagtt ataaccttta aaaaaaatag aaaaccattg gaagagttat atcttttgat 180
ttttattcaa aacttgtcac tggttaattga ttaccaaaac catgtaatcg attacacaaa 240
gctttttatg aaaggatatg actcttcaca attgattttg aatttcaacg ttcagataca 300
ctgataattg attaccaata tcttgtaatc gattacacca ttttgaaatc aattggaaca 360
ttgaaaatth agttgaaagc tttntgaaat caaacntgt cactggtaat cgattacagg 420
aaactggtaa tcgattac 438

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<210> 15949  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15949

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tgtatcaaga taaacctttn tgaattttgc caagtttctg acataattgg gggacagggt 120
taattgagct aggacttggt aatggcaatt gatttataaa aaatgttctt atttctcatt 180
gcttgggaat gagaaataat gtatataaaa ctgttagtgt tcaaggagac aatgagacat 240
ttaatgctac tagaatagaa agtagaatca actgacattt tctanagggtg atctggtaat 300
tgaggagaat ttcatgatgg ttcangaagg atggagcctt gcagaaagtt tntgtgtccg 360
atgcattgta gctgctcctt atgttggtcc atacaggtag ttaagaagtt catcncatc 420
atgtatgata tccccattat 440

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<210> 15950  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15950

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 gatcttcata ctatcatctc aagccagacg atgctcgcct tgtgtgggat cgcttgcccg 120  
 tgagttcaag ctaacttcaa ttttattata aggcaaatgc taaccaatgc ccttccaatg 180  
 cccaagacc attggttaag aaaataaaaag gagaaagatt tttattgggtt tacataaaat 240  
 tacgctgttc atgatttttt tttattttat gttctcctct gattttcata ttaaataactt 300  
 tatcctttta gcaagaccct tgtacaaatc gtttcctttt tccccctttt tttcagcctc 360  
 atttttagttt ccaaaactga ttattcgctg cagatgaccg tcgcttttac atcaatcatg 420  
 gcaatattca tcatt 435

<210> 15951  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15951

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 gttcagagac agaanaagtc ttttcctcca agcttataaa aataataacc caattnttcc 120  
 agaagcagga aaaataggat aaaatttgat agttgtttat taaattacag gtgcaatatt 180  
 ctattaagaa gtgatgaaaa taagaagcaa gataattggt tcttgcaatt tttgaatcaa 240  
 gcaaaggggtg ttatatgagt gtctttcttg ttaactatgg gctatggcaa aggaaaagac 300  
 atgtaattgt aaatgggtcaa aggcttcact ttatataatc ttgccaaaat atggaaatga 360  
 cattntgtat acagagcata tatagtgtct tgggtatatn nttggaagnt attanaaaaa 420  
 gtcattgtta ttgctaaatg ttt 443

<210> 15952  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15952

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aaaggatatc aaatcttctc tcagtaatat tttgcagcat ttggtggaaa aataatacag 180  
ccaggagcta acccagtaat aactaataat atcaatatgt aatgatgtgt atatgtttgc 240  
agatgaattc taaaagcaga cgtcattcatt ttcttataga aaagtaagta gaaagtgaga 300  
tggaaaaaaaa aaggtcagat ggtctcagga gaagagatga tttgtttgat gtattatgaa 360  
ctaaggaaag ggattttcca caggcatata cacaaactac agaagcacat gtccagagggt 420  
cagctaacga tccacat 437

<210> 15953  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15953

tgcttaacaa aaggcatgca aagtgggtgg aattcctaga gcaattccct tatgttatca 60  
aacataaaaaa gggaaaagggt aatattgtag tcaatgatct ttctcggcgt catgcattac 120  
tttctatgct tgaaacaaaaa ttgattggtc ttgaatgttt gaaaagaatg tatgaaaatg 180  
atgaatcttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240  
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
atttgcttgt ntgtgaagca catgaaggag gtttaatggg gcattntggg gtccaaaaga 360  
ctctagaaac attacaagaa cattmntatt ggcctcatat 400

<210> 15954  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15954

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atttgtatatt tttgtgggtg attgtgtttt tacatggagt tctaagaaga aaggcattgt 120  
gacactttct acttgtgaag ccgagtatgt agctgcaact tcttgacat gtcatgccat 180  
ttggctaaga agattgttgg aggaacttca gttgttgcaa aaggaaagca caaagatcta 240  
tgttgataat agatctgcac aagagcttgc caagaatccg gtgttccatg aacgaagtaa 300

gcatatagat acaaggtatc atttcattag agagtgcatt accaagaaag aagtagaatt 360  
gactcatgtg aaaactcaag atcaagttgc ggatattttc accaagcctc tcaaatttga 420  
agagtttcga a 431

<210> 15955  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 15955

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attaactcct ganaagccag gaacattgaa ccttgaccaa agattaaata tcatgattga 120  
tggtgcttct gcaatacatt atcttcatca tgaatgtaag gagtcgatta ttcattgtga 180  
tttaaagccg agtaatgtac ttcttgatga tgatatgact gctcacgtga gtgattttgg 240  
cttaacaaga cttcttttcaa ctattaatgg tgccacttct aagcaaacaa gtacaattgg 300  
aataaagggg actgttggct acattcctcc aggtatgttc taaactccca aaaaattgtt 360  
tctttgattt cttccctttt gatgaaaaac tgatatnnta ctaactacaa gtatggggca 420  
atnnttctat at 432

<210> 15956  
<211> 434  
<212> DNA  
<213> Glycine max  
<400> 15956

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cctaactaga tgatttaaatt gatgcatgtt aatatgtgca gccctatgat gccacaatca 120  
tgaatcatct atcttactca ccaagcaact tagctcatga aaagatacat gttcaacatt 180  
caacatatag atattaccta ttctcttact gatctggaca actttaccgg atatggcttc 240  
acttataaga catcaatttc tattgaactc tattttgaac cctttatcac aaagttgact 300  
aatgcttaga aggttatgct ttagtccatc cacatataac acattcttaa tctgagtttt 360  
atggtgattc cctatatcat gagaatcatt atttttcctt tggtgtgtgc tccaaacatg 420  
accatagttt ggac 434

<210> 15957  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15957

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 ttgatatggt catacatcca tcanatatct ctaattaaaa tgaaattatg cggttcatta 120  
 cagataataa aatatttact ttttatatga gaaaatcaaa tgctgatatt atgaatacat 180  
 atataataaa ctagagtaac acccgtgcta tgtagaagta ggggaagaaa aaagtttcaa 240  
 atagttgctc catactttta attaaagaga gtgtagagta ataaaaaaaa aattgggtgtg 300  
 taggccaata cgatttttat ttttttacag atatcaacca taaataaatg tatgtaatta 360  
 attaagctag caacatttgt ctgggtcana gtagtctga acattaaatt cttctacaat 420  
 tattgttggg catttattct tatg 444

<210> 15958  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 15958

tgcaatgtaa tctgtcacc gcttatacat tgtatttgtt gatgctatct gcagaagttc 60  
 acagatgaac acatttatct tctaacataa ttacagaaag attgaaaaaa tatgatgaga 120  
 agtggaagaa atcaaagaaa ttcattgaat cggaattgta gtgcttattt caccttctga 180  
 tttgcacttt gcatctctcg ttgtgctctt ccaaggctct ctgacagagt actatgtgac 240  
 ctctcaatgt caagcctagc ttctctctct ttaacaagag actccactgc agccttgtat 300  
 ttacaaagat gataaatagc ttagagttca tcatatgaca tttcctttca ccattcttgt 360  
 tctcttccaa ttgactaaaa attctttctt accgactgtt ccatttcttc cttgatcaag 420  
 ttttctt 427

<210> 15959  
 <211> 346  
 <212> DNA

<213> Glycine max

<400> 15959

ttgcttatat ctacttaaac caatatgagg ttgggctctt atactaaagc cacttagaac 60  
 ctttggttgc tacctacgag agtccttaga tatcaatcac tgtgggcagc tcttgccctc 120  
 atggcacctt cattggatgc acccaaggat gccacacgag cctcctgatg atcgtgttga 180  
 tgctaaccac atcaactaac ttagccatca cactcaccag atctgcataa cacattgaca 240  
 catattctat tggacttctc cacagaatgg agattatgat gggccatag ccccatgta 300  
 ctactgttgg ggctataagc agattatcta agcatataga ttctat 346

<210> 15960

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15960

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 cccgacgaat agactgacaa aagcttattt tctccttttt ggacaaagta tggcacgctg 120  
 ggggcaaata aattctcttc ccatcagacc ttggatgcaa ctgtgatcgt atgcccata 180  
 aagctagatg ttgacgggta ttcaagccat ccttcatctt gccttgaatg ttaaggagcg 240  
 taccaatcac actgtctcaa acatttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcacgatac agaccagcac ggaagatcaa agaaaataga cctcttcttc catatgcaac 360  
 tcttaactttt atccttcttt tgggacttcc cagatatagg atgtaagtgt ggaaccgct 420  
 catatacctg c 431

<210> 15961

<211> 441

<212> DNA

<213> Glycine max

<400> 15961

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 gcgactggtc ctttcttcc cttcgcaact tgagttcatt attgctacc catagagctc 120  
 cgcgaaattt gtccggcca tactcttctt tgcgagccct cttggtctct tgttcaaggg 180



ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300  
ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ttttaacttgg 360  
cgagccaatc taaacctcgt atgcgaactg tcagccattc gtggtaccca ccaatgatgc 420  
cattacgaat gcctctaagc t 441

<210> 15962  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15962

tgtgcaaadc agatcactcc tacattttat ctctttttgc attgtatggt agtctcgtcc 60  
tttgtcacgg gaagccggaa tgtccatadc accttcttaa ttgtacacat ggggcactgc 120  
gcccccaaat ggcgcagtaa gaagagataa ttttccgggc tctcgtgtcc gtaaaatgca 180  
ttcatatcat gcacgcata agcatctctt cataacatca taatggacat atcctgcatt 240  
tgtccgttat catattccag cctcaccttt tgcacgagtc atggcatcat catgcatatg 300  
cgtccaacaa actttttgat ctgcaaaatt gcataccatc ntgtttcatg tttgctcatc 360  
cttgcgtttt cctctacaaa acaaaaacaa agaaggggga agcgtgaaac ttcacactac 420  
attcttagtt t 431

<210> 15963  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15963

tatttgcatt ntaagacaaa tccccccac cccgaaggct gattctcaat ccagcagtcc 60  
cttaccacct tgtggtaatg cttgttatta agccatccat canagacctt ataaggctta 120  
ggacccaat caatgctctt agatttcatg aggatagggc agtgatcaga gtagttcctt 180  
tcaaggttgt gctgcgaact gtctggccac ttagaaagcc aaccatcaga gacaacagct 240  
ctatccaatt tgcttttaca ggaaccatta ngcctaacc atgtgaactg cttaccaca 300

ctangaatat cttccacctc catgatagca agccaatcat tgaaatctga catgatgctg 360  
gactctgaat tccatgatng cttccatctc tctgaagggtg cctaatacat aaaat 415

<210> 15964  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 15964

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atgattggta tctagtcgtc ttcattattgg tcctttatca tatgatctgt ccttttcttt 120  
aaagtagcct atattgaagt gatgctatga ttatgggtccg ttagttgtaa gatgaagact 180  
tgcacaaaga aaagcgtttt aagataaaga ttttctgttt tagttgtacg tagagaaaca 240  
aaagttacaa tattacttaa atgagaggaa agaattatgc ttcacttcag caagaagact 300  
cagtgtatgt ttgacttaat attagtaaac ttaattatga ataaaatcga ttttgtaaaa 360  
ttaatttaga ttaaaagtga aatcatcttt attatggatc actgggttag gtggttcatt 420  
taggatcact tt 432

<210> 15965  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15965

agctttaga tccccttgca ggactttntc ttgttccata ttgacaaaa caatacattn 60  
tgaanaatat taaacaaacc tgtgctacac atagatgaca tgtgttggat acctacaaat 120  
tatattatgt attgaaacaa aggtcatttt tatactctga atccttaata taacctctta 180  
tacccttttc tttaaaattt acttagcgag tttttttttt ccagtgatca agatgattat 240  
gaggttgtac aaaaagtggg cagggggaaa tatagtgaag tttttgaaag cataaatatc 300  
aatagaaatg agcgtgtat aatcaagatt ctgaaacctg tcaagaaaaa aaaggtactc 360  
ctttctttgc ttgtnttata ctagtttact cntacctgcg actgtgaata agccagcaat 420  
gatgc 425

<210> 15966  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 15966

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 aattctttca aatgtttgtg cgagtcttca cctgcaagac catgaaactt tggaagcaaa 120  
 tgaatcagtc cagttttaag aacatatggg acatcctcat cagggatttg gatgcacaag 180  
 ttttcgtagg tgaaatcagg tgcagccatt tcccttagag tcctctcacg ggggtggagg 240  
 tgtgccatgt tctcagaatg tgcaaaatca gaatgctcag aatcagaatg ctcaaaatta 300  
 tagtgctcaa gatcaggatg ttcaaaatca ccaataacag aatgcacaga ttcaccagta 360  
 atggaatgct cagaatgatc aaaagggtata aaatgatgcc taactaatct atgaaatgtc 420  
 ctatcta 427

<210> 15967  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15967

agcttatata tggaatactt acttgttggt gataaataaa agcgcanaac ggaatcgaaa 60  
 aatgcgaaga gtagagatcc tagggctgca aactcgtaaa ttccgtgggt atgggctttg 120  
 aatgggggga aaagaagttt ttgaatgcaa aaacgtcccc ctttcgtcat ttttttatat 180  
 tttggtgcag gggttgctcg cccaggcgag ctaacctgca cttttttttt taggggaaac 240  
 ataaccatgg cccccctctc ttacaggtt aacgttcgcc tactcgaact tacttaagtt 300  
 agaattaggc atcgttttac ttatttaaaa caaaaaatag tagttatcat tgtgaattca 360  
 aggatactgt gctgtcttga gtgacttctc tgttg 395

<210> 15968  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15968

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gatgtatggg atttagctcc taaaccaacc tctcacaagt caatcggaac caaatgggtg 120  
tttcgaaaca aacttgatga atctgacatc acagtaaaga ataaagcaag attgggttgca 180  
aaaggatata accaagaaga aggaatcggc tatgatgaaa cctatgctct agctgcaatg 240  
ttagaageta taagattact actttcattt gcttgtatta tgaatttcag acttttttag 300  
atggatgtaa aaaatgtctt cctcaataga tgcattgaag aagaagtgtg tgtagatcaa 360  
ccacttggat ttgtgcatta tgaacatcct aaccatgtct acaaacagac aaaaggctct 420  
atatggtttg aagcaagcan 440

<210> 15969

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15969

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agcttcatac ttttaacaag ccaagtacaa gttttaaatn tacttcattn taaataaatg 120  
acaaaaactt agcatcttct acttttgcaa accaagcatc aactttaatt tcttggcttg 180  
acttgatact ttgacaatgc ccttaacaat atacattact ccaatttgat tgaacttaag 240  
tgttaatat acatgtaata taatttcact tgcacacacc gaanaaaact cattgaccaa 300  
atggcagcac ctgatattac ttctagaata taaggtttat ntgcaaagtt accatttcaa 360  
tgcattttat cctanagact gctttcaaca tcacacacac acacacacac ancaattaat 420  
caaaacaatt tacctt 436

<210> 15970

<211> 435

<212> DNA

<213> Glycine max

<400> 15970

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gagccaagtt atcccttgca tccgagcctt caaccattta tgatatccac caataacacc 120

gttgatgctt cctctaagct ccttatcctt tctttgcacc acattccatg cttttcggac 180  
tcgtcgaagc atttttgcat tggggtcatt gaagccacgt gctatgaaag gcatgatact 240  
ctcttccgat ggtgcccctc tcatatgata gcctagttgt cttatggcaa gtttgggatt 300  
ataattaata caaccctcgt ttcccatcaa ggggacattt atgaaccctt cacatgagga 360  
caatactccg acccttcctt ccttccatag ggggaaccaa ttaacgaacg cccctaccat 420  
acccaccaag agttg 435

<210> 15971  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15971

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aattgatagc atagtaccat tatgagacga gctgctntag agcttctgac caccatccac 120  
tgtccttcag aatagaaaag ccattcacgt gcacgactct gagatataac attcaatcat 180  
gaaattcaaa cagaattact gcataatttg atgccctagg tgtaaaactgc agatagatat 240  
aaaaaaagga aatcagatat cctgtggaat cagctccata aatgcatatt gatgcacatt 300  
gcaatccaaa aaattaaaaa acaaaattag atgagaaaaa caatatatga agaacttgag 360  
aaatactaga tactctatat ctgtcaagta acaaaccatt atccctacct ctataataaa 420  
caaataatcc gacccatgat g 441

<210> 15972  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15972

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ctcgggtcac catcatcatt tcagaatata tgctccaact gaactggtga gcatttcaaa 120  
ttgctttaat ttgttctttt ttatgttaga cttattagca ttctattgtg aacctcaagc 180  
atattatcaa ctgtgtgata taggttccga ttttcccaa cttggagaca tttgtgattt 240

ctcacatgga caacttgaag tcaatatggc cggaccaact cactgaaaat tccttctata 300  
aattgaaaaa gatggaaatc acatcctgta acaatctctt gaatgtgttc ccatgtcatg 360  
tgctagacaa attacaaagc ctggaatcac tgaatntatg gaactgtatg gcactaaaag 420  
ttgtatat 428

<210> 15973  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15973

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tcggacgaat actaccctat agacactagt tgcattgagag gcattgaccg atataccatg 120  
accttcagaa tagatgagca ctgcgctga tccacagtga gattctatgt taatacagga 180  
gaggatgacc gtattactgc gctctttaag cccctgagcg tatacggaaac attcttgctg 240  
gattccgcgt cctgacatgc tgtggatata agtcgatatg gtccttatct tccacgaagc 300  
tgagcgggtgc attgcatata ctaatgtggt gaacacccca aacgcggacg cgtttaaaag 360  
tactcgaatg cttctgcgta tgagctagga attccaacct tatagagcta ttgccgtcgc 420  
tagcgtcg 428

<210> 15974  
<211> 264  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15974

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tccttggaac ttctcaagag actgctctgt ttaattttga gcgtctctat gtataatgcg 120  
ccggagatga acacaaatgt ggtaaattga tgagcatttg aatacctaca gagcatccga 180  
tgatcggttaa cggagcgtca ttatatgcga tgagcctcaa acggaccgac attcgataag 240  
ttttgaacat tcgaatttct tgag 264

<210> 15975  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15975

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gcatgtttgt gaaaatctta ccacaactat gctcctccag aaagattata atttgacata 120
ttttatgtca ctgtggttca tgcacaataa ctaactctcc tatagggtgtt catagcgctt 180
attattttta atatattatc ataatgtaa atctattgac taaacttata taattattat 240
gctatattat gtatcattaa aatntgtgta acatatttat gttgaaaatt attaattatg 300
tacttttatt aggaatgatt aaggaagata atataatcaa ctttttttgt aacataatag 360
tgcatagtgc ctcaattgat atataacatt atttttaaga atattgcta 409

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<210> 15976  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 15976

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caatgccaga caaaattagt ggactttaat gtctaattta atggatctgg atttgtctgg 180
taactccctg cacgaaacag tccccattta tctggatttg tctgggaact cgctgcacga 240
aacaattccc caatggtgct tttctttgtc atcgttgta cgcttatctc ttacggaaa 300
tcagcttaca ggaccaatgg gtgaattctc ttcttttccc ttgtattatt gtgatctctc 360
ttataacaag ctacaaggta atatcccaac tcagtgtttc atctacacaa tctcactgtg 420
ttgagactat ca 432

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<210> 15977  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15977

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 aagctaccta gtctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgaa 180  
 agtcttatga gatacacttc aaagttccac ttctttcctt cttttattcc ttcaatttcc 240  
 tgctcccccc ttctctcttt cttttcctcc attaaagcat cttcttcaag cttcttatcc 300  
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 ttccctatcc tcttctcctt ttgccttcac tgcac 396

<210> 15978  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 15978

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 tgtcttgga agttgcagac caaattttga gaagatccaa tgggttaatga aggctgggca 180  
 gtgtttttac cgaggcagct tcatgtagct ttctctagaa gcttcattaa gaggcttcct 240  
 ccagaagctt tctcgtggtt tctttgagaa gctttctcaa gaggcttctt tgagaagcta 300  
 gatccttatc tatccacacc cctctattaa ctaaattaac ttctttaaaa ataattatgg 360  
 atgaaaataa cgtaacaaat aatcaaacat caaacataat tactaataat atatagatat 420  
 atatatc 427

<210> 15979  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15979

ttcttgata gttccccaat ttgtagtcat tttggagtaa attntgtaaa taaatcttgt 60  
 ttatggttaa cactgtctct agaacaattc cattggattt aatgatgaaa tctgtgcatt 120  
 ntcaggtgaa aaagaggcta agttttgaat tgcaaaaagt agcagttggg ctaagcgcat 180





cttgaatttg aaattgaatn tgtggagcca aattttggag ccaaaatttc actaattatt 420  
gatagtg 427

<210> 15982  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 15982

tgaaggtaaa ctagatgcct tgggttaacct ggttacccaa ttggccatga ataaaaaatc 60  
tgcacctatc gccagacttt gtgggtttatg ctccctctgcc gaccaccaca cagacctttg 120  
cccttatgtt cagcaatctg aagcaattga atagcctgaa gcttatgctg caaacatcta 180  
caatagacct cctcaacctc agcagcaaaa tcagccacaa caaaacaatt atgacctctc 240  
cagcaacagg tacaatcccg ggtggaggaa tcctctcaac cttagatggg cgagtccttc 300  
acaacaacag caacaataac aacaacaaca acaacaacag caacaacaac cccagaaaca 360  
gcaaccaatt gagactcctc cgcaaccttc cttgaagaa cttgtgaggc aaatgactat 420  
gcaaaacatg 430

<210> 15983  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15983

tgtttgaaca aaagaagtgg aatcatgcaa caaatgtga aacaatacta caagatgcct 60  
atattacctt tcaattaccc ttntctcaaa ttggtgtggg attggccatc actcaaatg 120  
actcttcatt catcttccga ttgcgacgat cccaaatgac aagatgtgaa tgcattgcctg 180  
cttatgattg gaagttaagt gcaacaatta aacaagtgtt atcatgttca attttactta 240  
aacgcttacg acacccatt aattgagcca aatggctccg gattcagtgg gcaagatcga 300  
gagtgtatgt tcttaagaag taaaagacac aacacaggag gttaagatgc anacatttaa 360  
tccacattta ttaatgct 378

<210> 15984  
<211> 414

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15984

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tgaaggtgtg tagccaccat cttttcatag tagagcactg gtaatgtgtc tactatcact 60
gttategtca ccccttccgt cattgggggc gccacttggg ctgccagatc cctccacctt 120
tgggcatatt ctttgaagga ttcatgcccc tttttacca tgttctgtag ctgcatocta 180
tccagagcca tatcagaatt gtattgatat tgcctaatga cggcaaccat taggtccttc 240
caagaatgga ctcaggaagg ttccgagtta gtataccagg ttacagttgc cccagtaaga 300
ctttcttgga agatatgcat cagtaatttc tcatcttttg cgtatgcccc tatcttccga 360
caagttcttg gggcaagtag tccccttgta cttatcanag tccgacacct tgaa 414
```

<210> 15985  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15985

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ttgtctttgt ggaaacttca tgtgtactc aatgttttga aaaactttnt agtacttattc 60
ttgattgagt cttttctgta gaagcaagct tcatgatgaa tcaagattga ttcaaggagt 120
tttgatgata acaaagatga tgacaaaaag ctcaaaagtc aagaacactt catgttaaca 180
aagatgatga tttcaagaat caaagaatga gttcaagatt gaatcaagaa cacttcaagg 240
ttcaaaagga aatttgattt caagaatcaa gaatcaagtt tcaagattca tgttccaaga 300
atcaagatca agattcaaga ctcaagattc aagaatcaag agaagactca ntcaagataa 360
gcattanaaa agtttttcaa aaactgagta gcacatgaaa ttttctcata accttntacc 420
anagaagttt tactct 436
```

<210> 15986  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 15986  
tatgcgcata tttccttaca aacgttctct tgcacaagac attctattaa ccgaaaaaat 60

gcacccatat acaatcaagg cagcttcggt acctagatta ttacacgta cttccaaggt 120  
gtatttggtta cttacatcac acacctcctt ggctaaactc acatacatgc atactcaaag 180  
cattttgggg taccaaaaat tgcacatgtg cacatcttgg tatttctaata acctatacat 240  
acacaaactt catgatgaat cttaactatc tacacaataa ggtgctacat tttatgctct 300  
tttcaagttt ttgtacctta aagccgcatg caaattcaag tatattttcc tttgctgact 360  
aaaattgtat tcaaattaag aggtatacat tttttggtaa tgtatcttct ttacataaca 420  
tgcaacatat 430

<210> 15987  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15987

tgcttatagc cttgggcatg aggggggatg atggaaagcc accttaattg tgatcactct 60  
ttagccagaa agggctacct acggaggggt tgacccaaat ggctatttta agtgtcgtag 120  
agtgcactac aaccactgga atgcagctct tatgcgattg agatctcaca ttcactagag 180  
gtatgactta agctgtgttt ataaggattg ggttggtctc atcttacagg ttgattttgt 240  
gggttgagtt agaccataaa cccaaattgt aatacatgag gaggacaatt ggatacggta 300  
nggttatact atntacaaca tatggagact gattctagta aaaagggtgt gtcttcttgt 360  
cattanggta gcttcccaca tttggcttca atgtanacgt cttggacatc ntgcctttgg 420  
tattcttatg tctt 434

<210> 15988  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 15988

tcttttggac cttgaacagg caactaactc ctctttcaaa accatgccat gtgctcgcga 60  
ctgggtccctt tcttcccttc gcaacttgag ttcactattg ctaccccata gagctccgcg 120  
aaatttggtc eggccatact ctctcttgcg agccctcttg gtctcttggt caagggctct 180

tgcggtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240  
 caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagcttggac 300  
 ttctttgtct tcttccggtg cttcaaaatt ctcttcgccg acgactttta acttggcgag 360  
 ccaatctaaa cctcgtatat gaactttcag ccattcgtgg taccaccaa tgatgccatt 420  
 a 421

<210> 15989  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 15989

agcttgctga tgctgaagaa gatgatgacg gcgacctcat cttacctaaa aggagatagc 60  
 tcgtgagcga tattgagaat ctcgatagaa cactatacaa ccctatcatg cccgactatc 120  
 tagttcttct accaagctag ctacacggaa tcgctacaca tcacatctta tatatacaca 180  
 aactatataa gtcactctct ctataagaaa gaagatacgt actataccta aaccgatgac 240  
 acacgtcata ctgttagtcc ttcaaatgca ttat 274

<210> 15990  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 15990

ctttgcggtg tgtagaccgg ccaccctcat atgtgctagc gcctatactc tcgtgagtca 60  
 atggcacaac actactcctc acgcgcatca tatgtgggac ttgctccgca ctactctat 120  
 tatatcctgc catgtgctga tccttgcata acgtaatatg ccgtaccaga ctagctgttc 180  
 cacattaata ctatcataga gtcaagatga cgtatcccaa cttgcactgt gcgaagacca 240  
 caaatgcgat ctctgactat aatgttgctc actcgcagag tcatccagat ggcttgctc 300  
 taccgatccg agtctccgct actacaagag agatcaaccg ttgagaccgg accatgtcac 360  
 tatctaggca cttgcgttct ctggctagct atttcgataa ataggcgct agtatgcaca 420  
 tctgaggggg gctctcaaca cgtacatcat ctat 454

<210> 15991

<211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15991

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agctttgagc agattcaaac gacaataact ttttactcgg atgtctgatt gagtcccaga 60
atatatcgac acgctctaca ttgaatgctt atgctctgag caaattcaca cgacaataac 120
tntttactcg gatgtctgat tgagtcccg taaatatcga gaccctcgaa attgaatggt 180
gatgctctga gcaaattcaa acgacaataa ctttttacac ggatgtgtga ttgagtcatt 240
taatattctg agacgctgga gattgaattc tgaagctctg agcagattcg aacgacaata 300
actatgtact cggatgtctg attgaatcca atgatataac gacacgctcg aaatagatca 360
tgatgctctg agcatattca acgacataac ttgtactggg atgttgaaga gtctgaatat 420
atc 423
```

<210> 15992  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 15992

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taacaaaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60
taaaaaggga aaaggttaata ttgtagccga tgctctttct cggcgctcatg cattactttc 120
tatgcttgaa acaaaattga ttgggtctga atgtttgaaa agcatgtatg aaaatgatga 180
aacttttgga gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240
tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattc 300
tcttggttgt gaagcacatg aaggagggtt aatggggcat tttgggggtcc aaaagactct 360
acaaacatta caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg 420
tgaacattgc attgtatg 438
```

<210> 15993  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15993

agcttattac aagaaattag tttgtaagaa ataagtntga ttcagagtaa gtctcatcga 60  
ataatatttt gttttaactt gtattagtct attntagaat attaggttag tgatattaaa 120  
tgaaacaatt ttactatttt caaacatttg ataatattgt gttaattata ttgtatatgt 180  
gaatgaatca tgatataaaa tagtaattct aaggaaaaaa ataaaattta aataagtaat 240  
ttattggtcc aaactgaatc aaaccgttca tgaatgggtt ggggttgggtt taaaaaaatt 300  
gtgaaaatca aaccgaacca aatcgatgaa atttgattga gttgagtctt gaattttgcc 360  
aaaaccagtc caaatcggcc tacaaacacc cctaaaaata gttatcanag aatacaactt 420  
attataaaat tgatccttga aca 443

<210> 15994

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15994

ntgcgtaatc gattacaagg atttggtaat cgattactag tgataagttt tgaacaaaaa 60  
tcaaaagatg taactcttcc aatgggtttc aggtttttct aaagggtata actcttccaa 120  
tggttttctt gaccagactt gaagagtcta tnnnagcaag accttgattt gcatttgaac 180  
aacacttaca acctttacaa acaactttgt cacatattat ttacaacct ttgaatctct 240  
ttgaacatct tcttgaactt attcttcttg ttgttggatc gagtggcctc aaaataatta 300  
ataagggggg gttgaattaa ttactcctaa acttttacta a 341

<210> 15995

<211> 59

<212> DNA

<213> Glycine max

<400> 15995

agccttagat tggactgtac cgatgaatcg ctgggtctgta cgacaatgaa ctgtatggc 59

<210> 15996

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 15996

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ngtcgtaggg tacgtgggtg ctgcgacctc cacacttgta ttatattatc gtggctcagt   60
ggtccaattg ggcgctccat aaaggtaata cattgaatct ctgacacttg gacacattcg  120
ttcagcagca agacttgtct accagaagaa aatccgaatc agatgcacaa tgggaatccc  180
aaaaggggat ttgggacaat ttgaaccaca aggtggaatt gtctccagga taattctaac  240
gcatcttggt aatagtaata ccagagacct ccctgcctcc aagagtaact ctggacactt  300
agacaagaat cttatcccg c ttggaaactc cgtcaggcag aagatgctac gcacactacc  360
ttctgagcgc catcctcgtc tgacaccctc aaaatttgaa cgagaggggt tgtggaatat  420
atcccccgcg accatataca tcagagaggt gtccaagacc tatt                      464
```

<210> 15997  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15997

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agcttctact tatgtggtag ggcgggcttc cttcactttc ttgtctccaa cgcgagctct   60
aaccactgtt cttccttccc acgatgcttc ttttcatgtc cgcttgagtg ggcttatagc  120
ctaagccata cttcccacga tttccttggg tttttatcag gctagttatg tcgccgttgt  180
ctttgcctaa acccatcccg gggtcataac cgttccccaa cataactcgg gccatcatta  240
ccgctgcata ggacagacaa ggctgcccaa agaggaggat cacggaggaa atgctgacca  300
cctcaaaaga ctggaaagca gtttctaacg attcttctgt ggcttccaca taaggcatgg  360
aggatgggca gcttaccaag atatcttctt cgcttgacac gatgaccaag tgcccttcca  420
ctacgaatnt cagcttttgg                      440
```

<210> 15998  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 15998

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tgtactatat gaaaagataa aatgatacaa gggcaaatta gtatttcttg aaaatgatga   60
```



agatgttgcc tttgtgcaat tttttaaagc tcgccccagg catttgttta aacatgagct 120  
tgaagtgtc aaacacaagt ttgggcgac gactctcgat ggccatgcc aacaaacatt 180  
ctatagattg cagtagtatt gctttggctt ggaacctaaa aagaagccac ctattggttc 240  
ttatcatcat taaattgagt gttgttatca gactttgaac cacttcactt ctgcttcact 300  
caagaaactc ccttccatga tctattcatg gcaatgggat ttctatgcta cgtctaata 360  
caccttctct tttatgatga tattttcatt ctctcgcttc ttcttcaccc atcatgtaga 420  
cccatcatt g 431

<210> 15999  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 15999  
tagtttggtg accactagct ccctatgatc acgcatgatg cttagaggat tagttagtta 60  
gtctaacctc ctcaagggtg gacatgtata tatagacca aagaatacac aataaggtag 120  
gctttcaatc actccataca tagatgcaca aaacaccttg ggcttgactg acttaatcgt 180  
ctgagtcctt tttgcaggca ctttcttcaa cattggagta tgagatcgga gattccatta 240  
atatgaggaa caaaaggaga gaggtagaca gtcacatcaga agtcagccac aactcaccag 300  
aactcagctc gaacatttaa ctacagccaca actcacgga actcagccaa aacatttaac 360  
tcattcacag agcg 374

<210> 16000  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16000

gaccttaaatt ctccgcttgc ggtacttta ctttctcaat gtacaaacat tttttcacat 60  
tgaatttatt atacatagta tatatttcca ttcagccttt tatataataa agttggcaat 120  
tgacatatat atttcacttt ttttatgata tggagagtca tgagatgttt tgattattga 180  
ttttattctg ggtacttttg gtatcattcc ttaagactat tgaagtgtgg aaagagctgc 240

atactaatgt ggattaacta tctaaggcct gatatcaaga gaggtatatt ctcaagtgaa 300  
 taagaggaaa ttatcattaa gatgcatgag ttgctgggga acaggtatat attcgctgat 360  
 tcattcttca gattaatggc attaatgatt tgtcttaatt aataatagaa agttcgaaca 420  
 gaatattagt actangttat taccatgaa 449

<210> 16001  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16001

tatcttatca catatggaga cgcctgaaat tgaaccagag aagatctcga gaaattcaga 60  
 tggtcataac ttttctactca gatgtccgat gctggcgcat agtatattga gacgctcgaa 120  
 attgaacaac ggaagctctc aagaaatgta aatgatcata aatattcact cggatgtccg 180  
 attcaggcgc atcatatatc gagacgctcg aaattgaaca atggaatctc tcgagaaatt 240  
 aaaattgtca taacttttca ctcgcatgta cgattcaggc acatcagata tcgagacgct 300  
 cgaaataaac aacggaacct ctcgagaaat tcaaattggc ataacatttc aactgaggt 360  
 ccgattgatg cacatcacat atggaga 387

<210> 16002  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16002

tcaccggatg atgccgatcg agcatttctt aatcgatttc atccaattgt tattcagga 60  
 ttgaatagaa taaacaatgg ccggtgtcgg tccttatatg gccccgactg atatctttca 120  
 gccgacattg cgcaatttct tttacaaacg ctggccgata atattttttt ttttttacgg 180  
 tagaggaagt tttttgtttt ggtgttgctt aaaaaattaa caacgtaggt cggcaagggt 240  
 tttccgtgcg acctcaaccg aggggttcgtt ccgaccgaca ctggcatggt gatatctcat 300  
 ttatgaggcc aacaaaacgt tggcacaccc cggcataaac aaaaaaaaaa tattctcgaa 360  
 tattgatcga aaaacatgat agctgacgtt agcatggaga gatgaccgat cga 413

<210> 16003

<211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16003

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agcttggata aatgttcaag ctatacgttg attaattatt aaataaataa ataaagtttt 60
atgaaatatt aattatgcaa tacatgaatt ataaaataaa gtaacaattt aacttacata 120
aaagagattc ataagtaaga aattaagtca agttcactac ataatgtacg ttgataatag 180
atattatata ttagtagacg taaatatgag tcttggatat gaaattatat taatattttt 240
ttaaaagaga ttgagcactc aataatccta ctcaccttga gtagaattat ctctatgaaa 300
gatacatgtg atctctanaa caaacagcct tcagaagata tacatcatgc atgagataat 360
catatattta agcaacatcc tttcaaacac aagcttatta aatggttgct tctcatgtta 420
tctcatccac taaa 434
```

<210> 16004  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<400> 16004

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cgcgttgctt atagactgca gggcattgta aactcttgtg ttccccgcat ccggggaaat 60
cagaggctca gatattcgta ggcaaccggg tgatggatat atatatctct ctatatagag 120
tgtaattgat agtagtgtat taaatacgaa cgtagatcaa atacatatga ttattatgcc 180
cgagtgttca tctatatatc agaggatggt atgtatca 218
```

<210> 16005  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 16005

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tcttataaga acaaaattgc ctcaatcatt tccaaatatg catgtgaatt atgaagcatc 60
aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca caccatatga 120
ttatgatgat ggatggctca aattctcaca aaggtaaact catcactttc aaattgagct 180
ctcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240
```

actttttat tcaaaacaat taccatttc ttgaacatat cctataattc aaagaaaaac 300  
 atgcaaagtc gtacatgcac acaaaattga cccaaaatat taaactatag atccgacaaa 360  
 actagcaaca ttaacaaatt aacacatcta acatattaac aaaaccaaca taactagcat 420  
 aaccaaagaa tactcccc 439

<210> 16006  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16006

ntgccgattt agtnttctct gnaaaaagga ttgatgtttg tttgagaaga ggcaaatttg 60  
 attatcctac tttgatgaat aggaagcctg cggcaaattg agagaataag aaggagggag 120  
 gaacccatgt tattgtgact gtcgttctg catggccaaa tttcccacca gctcaacaat 180  
 atcaatactc agccaatatc aacccttctc attaccact accttatcag ccaaggacac 240  
 ccaatcatcc ataaagacca cccctaaatt agcgacaaag cccgcctatc gtacatccga 300  
 tatcaaacac cacccttaac acaaaccaga acaccaacca gggaaggaat tntccagagn 360  
 agaagtctat agaattcacc ccaattccgg tgctgtatgc taacttactc tcatatctac 420  
 tcaataatg 429

<210> 16007  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16007

tagctttctt gtcatacag ttgcatgatt ggagttngtc tctgacgcac cattataatg 60  
 agacattttc tatgaaggcg ttcttaattg actgctcact gtgatatttc ctcacactct 120  
 tcgcgattat atgcgctcat gaattccttc accgacacct tgtagaccac atccacttat 180  
 tctactcaac tgacctcaaa c 201

<210> 16008  
 <211> 370

<212> DNA  
 <213> Glycine max  
 <400> 16008

ttaatctaga tggcgtgcat gtcgctcccc ctatctttat ccatcatgcc cttgagggct 60  
 ttgatgatgc cacacatcga tataacattg catgcattga gagggctctga gtcttgacat 120  
 tagagacttg cttttcttag ccgatctaga taattgttaa cacttaatag cggatcgatc 180  
 cattgcatca tcatcatcat atgtcttact atatgatcgt actgatgcta atgctatatg 240  
 acgtagtgca ccactagatc atctcccaaa tgcttatata ctacactgca agcaagtatc 300  
 caatacatat gccgcaggac atatatatct cccttgaatg cacatatgca gtcacatctcc 360  
 cctttttggc 370

<210> 16009  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16009

agcttgcttt tcctttgtct tttggatctt caataccttt ttcacaatct tttgctcttc 60  
 aaccaagaaa gctcgaatga ttctacagaa ccagagacaa aagtaagcaa ggtactccat 120  
 caatttgcac aaagaaaatt aaacatactg tagattaaga agattgagaa aaacaaacct 180  
 ctctctaaca gcactgccag acaacacacc accatatgca cggttcacag tccttcgggt 240  
 nttgggtaac cttgatctct tatattctgt tggccttaaa tgtggaatct gcaattgcca 300  
 agcattaata accattatgt tataccgtgt atcattcata cataatcctn taccaatcat 360  
 agaaagaaaa atctagttgt aggaaccttg aacatcataa tcttaactnt taag 414

<210> 16010  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16010

tacacattcg tggagaanaa cagattcaag tttttctgta ttggataagt cagggatctc 60  
 aataagggtt cgacaaccac aaaggctaata tatctttaaa ttagcaagat tctgtgacaa 120

gaaagatgca tcacattgtt cagaaattgt taaaatcata accatgagcc ttaactgaaa 180  
gagaaaccta agcatgactc ttgcgaatga gcttcacttg aggcagcaca aaaccagtta 240  
ccattgacaa ctctctcatg tacctttaca aattgaaaga aaaattagca tgtatgcaac 300  
attcatacct gaaccccgtc ccaaggcttt ttaagcttgc tatcaggcat gtggagctct 360  
acaatntgtt cagcacanaa gttagacggc aaagacttga gatagaatct atcccattca 420  
aggtacatca a 431

<210> 16011  
<211> 437  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16011

tagcttgtga tttcacttga tcatacaaaa aatccatgga taaaatacta ttactatattt 60  
gaagcttgtg attccacttg atcatacaaa aaatccctaa caagcttgtg atttcacttt 120  
atcatacaaa aaatccatgg atatcccat aggtgtgaat ttttttgcca ttcccattct 180  
tgtgtactta tatagtatta aaaacccatg tgggtcaact taatgatgaa agttttaaat 240  
agtttgtacg aaattgtaga ttcaaattct atgatgatta atatacacac aaaagaaaat 300  
aatattaaaa gttactccct ccgttccatt ataattatcg tgtaaggaga taaaatttat 360  
cctanaataa ttgtcattnt ggctnttcaa tntagcattt aatatttttt cacttatatc 420  
tcttatatag taatgat 437

<210> 16012  
<211> 423  
<212> DNA  
<213> Glycine max  
<400> 16012

tccatcaagt ggtatcagag cacaagagct tcaagtatgt gtccttaaa cctccattaa 60  
ttttttgctt taccttttct tccgttgttg tttcttcatt tttttctcca tgtatctcct 120  
cacatgtctt gtgctaaatg tttttaacat gattctttag attttccacc aattaaactt 180  
gctatagaag ctagatttga ttttctatgg ttcaaatttc ttgttcttgt tcttgaactt 240

tttttttggtt ttctaagttt cctacatgat gcctatgatg aagttgagtt gtgggtgctga 300  
 gttgtggctg gatttgtgaa tcaaaataag tcttaagctc tcttgaattg tgttattcaa 360  
 gataattgag cataatcaaa cacaaattgt aactatccaa gctttaagca acataaacac 420  
 tac 423

<210> 16013  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16013

tatgattaac tagactntga acccttgcac tgcacggggtt attttaaatt atatatatat 60  
 atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 120  
 ataattntat atatatatat ttataaataa aaaccatagt ttttaaataat tttataactat 180  
 gtgaaatata attatattat taatgagaga gtggattaat tatattttta attgagtga 240  
 ttttatctta cagagtgagt atattaaata ttttgtgtga ttgtttattc attcaagtaa 300  
 taatggtgat gcgatatctc ttgaaagata tatatacata tataaaatta tccattttta 360  
 agatattttg tagtgagaca catatatata tattaatatg gagagataat attaattctt 420  
 agtgagcaca tgttctctg 439

<210> 16014  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <400> 16014

tttgtggaaa ggattgatca ggttgtctct atctttactc ttggttttcg tgtacggttt 60  
 tacatagttt tttgtttgtg catgaatggg ctcaaaacaa atcattttca aagaggggtgc 120  
 attttttaat cgacctcatt tgtttgaggg tgaacatttt tctttttgga aaaagagaat 180  
 gaattttttt taaacaaatt atcccagtgc atggaatgcc actattaaag gtcctttcat 240  
 tcctataaac aaataaatgg tgaattagta cctaaagaat gggatgagat gaaggatgac 300  
 gagaaaataa aagtgcacaaa tgatcaaaaa gctaaaaaca tttaaaacttc tggtttatct 360  
 tcgggtgaat tctttogtac tgcaaggtgc aaaagtgcaa aggaaaattg gaatatgcct 420

gaagtcactc atga

434

<210> 16015

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16015

agcttataca acttgttgta attgattaca atgaggctat aatcgattaa aatagaaagt 60

tnttgccttt gaagaaaatt ctctaactaa gaaactnttc ttcacacaaa ccatgataat 120

gcatgatgta atacaaatat caaatgtact aagatgtaac aaccaagata acaaccaata 180

caaatgccac tcaatggagt tggggatgta aaaacacaaa cttcttcaag ctttagccct 240

taggttggtc agaagctagc tagttagtta agttgaacat cctttagatt gctagctggt 300

tgaaatcaag cttaacgagg tggatataga taaataatac gaggaacaaa gttctaaata 360

taaaattcta ttaaactttt aaattataaa agatattaaa agttaatata atacaag 417

<210> 16016

<211> 436

<212> DNA

<213> Glycine max

<400> 16016

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gcttcgtgat gatctcaaga atcaaagaat gatttcaaga tgttcaagat tgaatcaaga 120

acatttcaag gttcaagagg aaaattgatt tcaagaatca agattcaagg ttcaagcttc 180

caagaatcaa gatcaagatt caagactcaa gattcaagaa tcaagaaaag acttaatcaa 240

gataaatatg aaaaagtttt ttcaaaaact gagtagcaca tggatttttc tcaaacctg 300

tttaccaaag agtttttact ctctggtaat cgattaccag attattgtaa tcgattacca 360

atagcaaaat ggatttgaaa aatttttcaa ctgaatttca atgttccaat tgatttcaaa 420

atgttgtaat cgatta 436

<210> 16017

<211> 156

<212> DNA



<213> Glycine max

<400> 16017

agcttttatg attatcgaac gacaatcact tctgactccg atgtctgata gcacccccta 60  
gtacatcgag acgctctgaa tcgaatgttg aagctctgac catatcttga cgacgataac 120  
tctttattcg gatgtgagat ggaatgctgt aatata 156

<210> 16018

<211> 253

<212> DNA

<213> Glycine max

<400> 16018

tcatcattca ctttcgaaag tctcgatata ttacgggtact aactcacaca tcccaccta 60  
aaggtatcgc cgtttgaatt tgctccgact ttcaccattc cattgcgatc gttctgatgt 120  
aatacgggac tgaaccatga catcctagta aagcgatgcc gtcgtctgaa tacactccta 180  
tcttcacttt taaatactga tcgtctcaac atattacacg gactctgtga gacattcgaa 240  
caataagttc ttg 253

<210> 16019

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16019

agcttttatag agcctgtgtc gtcagcaaga agttcaagtt catagccatc tacgtctgat 60  
gagagtatga tgatctaang gacgtatata tggccatcga tgactccttg gaatgagaat 120  
cctataatgc ccgaagtga gaacactacc ataactagtt gtgaggggct ctatatggca 180  
tctatagtga gttcgaacgc cgaataggtg ataggaatca ttacgggtca tacgcatgat 240  
ctggaaagac gagctaaagg cttgccttag gtcaaaacga aatttgtccc aacatttaga 300  
gtgaaactga gaggtatatg tgggccttca tcgatgactg caattagtaa ctaatctatc 360  
ggcactg 367

<210> 16020

<211> 418

<212> DNA  
<213> Glycine max

<400> 16020

tgccgcccag ctgcccagg cgagcaacgt tgcttctctt tgaagcaaca accttctgga 60  
gggcccaggt gggcctgggt gctatttaca ccccccttgt ttactaaatg cccccccctt 120  
tctatgtgat tgtaattctc ttccgtaacg tatccaaact ttacgaatgt tgtaacgata 180  
cctattttcc ttacgaccgg ttacgaatcc ttaccgatta tgtattgact cttttttaac 240  
tttcgaagaa tatacagaaa ctactgatt gcgcaaaaac acctcttttc gatttccgcc 300  
acattactga atttcacgaa tcacgcaagc ctgctacctt tcgatttctg agacgtctcg 360  
ggactccata tattgcacgt catcagagga taatcctcgg actaaattat ggtatgac 418

<210> 16021  
<211> 94  
<212> DNA  
<213> Glycine max

<400> 16021

agcttgtctt aatcttgtcc accaccagat cttgagctgc agaacggact accattaata 60  
acatacgtac ctactgacga gagggtaata gaac 94

<210> 16022  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 16022

tatagaatac tgccgctata ttgatgcgcc gtgaatggac atacgagtga aaagttttta 60  
ccatgtgaat ttctcgagag ctctctatgt ttaattttga gcgtgtcgat atattatacg 120  
cctgaatcga accttagtgt agaaagttat gaccatttga atgtcttttag agcatccggt 180  
gttcattttt gagcgtctct atatgtgatg aggctgaatc ggacctccgt gtgaaaagtt 240  
atgacctttt gaatttctcg agagcttccg ttgttcaatt atgagcgtct cgatatatta 300  
tgcgctcgaa tcggacatgc atgggaaacg ctaggactat tcgaatctct cgagagcttc 360  
cgggtgtgcaa ttgcgagcgt ctgcatatat tatgcgcggg aatcgcacat acaggggaaa 420  
cgttatgacc a 431

<210> 16023  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 16023

ttctaattgtg tcataagaga aatgtggacg agagagctgt gaggtctata cgcgagatga 60  
 ctgtgaatgt tacaaaaaat aggggaatttg aggagggatg tatgaatgat ggatagcgaa 120  
 tgctgagaaa acgaacataa tacatgaatg actggccaaa agttcacgac aagacaaata 180  
 gcgataaata ggtagttata aaaggaggaa ggaaatttcg aaaatccata aatgaaagat 240  
 acaggaaggc taacagaggt atatggtaa cgcacaagag acagagatgg tactagaaca 300  
 gaaaacaaag cggatacacc aaaaaatgtc agacacatgg gaaaaacgtt gactatgata 360  
 ctatgcaaaa aatgagcaaa tgatagaagc aaaacatgtg agaaggatct acatcgcgac 420  
 gatggccg 428

<210> 16024  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 16024

tgtcgaaatg actaaaacgc attcttgcac tgattgttct aagtcttga acccttgtga 60  
 cacttgtcat ttgtctaaac aaaagaggat gcctttccct gacaacatta ttgtttcctc 120  
 ccaatatttt gatttgttgc acatggatat atggggctct tatgctcatc cttcattact 180  
 tggtcataaa tattctctta ccatcgttga tgacaaaaac atatatacat ggattatttt 240  
 cctataatta aaaccagaag tgtcaaatca tattaacacac tttatatcta tggttgacac 300  
 tcaattctct gtcgcagtta atagcattag atcacacaat ggccctgaat tttccctgaa 360  
 aaatttctat gattcccaag gtatttttca tctaacttct tgtgtggaga cacccca 417

<210> 16025  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16025

tgcttggaca attgtacatg tgaagcattt ggagagaagt gagattttga agcccttttc 60  
catccaacaa ctntaaacca ctgaaattgt gtaggaccag anattataga gaagtgggca 120  
gtaactgctc cttcaaaagg gtgttaataa gatcttcac acccgaga cccttaacta 180  
aaagatgtga cagagaagtt aggtgttgga atagcaaacc taactcttgt ctagacatag 240  
ctgatagtac tcgaacatca acgtaaagt atcgtaaacc ggaaggaaaa caccttgnng 300  
acaatctagc ttctgaatcc aagtgttcaa tggcggggag atcaatctga tctggcagtg 360  
atctatagtt ctcaaatca gtgacaataa aacaactaat ttggaagctg ctcctccacc 420  
ttgagtagta attgcttcca 440

<210> 16026

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16026

tatatgctac aaagtgttta gcaaacacca caaaccttat caattctctt atctcttcat 60  
aatcaagggtg gacatatgtt aaagtcataa tctagaaaaa acaagggaaa aaatttcaac 120  
cctgagccca caaaaacaaa gagttgtgtc agaagttaaa ttcaaagaca ataaattact 180  
ctcatagggtg gacactagaa aaatggggct taccatatgc aggttcaa atgtccaaatga 240  
ccatatatta actcttttta ttgagaaaat taacatatag aactcacaaa agactaagat 300  
atcagggcac aaaatgataa tgatgatgat aaaattattg atactntgga cctttaacaa 360  
ctcatgggtt taacatggaa gatca 385

<210> 16027

<211> 393

<212> DNA

<213> Glycine max

<400> 16027

tgcttgatga agaagagaat actcatatca gtacacgtat agctggaaca atgttagtac 60  
tgtgacacat ctattagcct gcatccagga tttagatcat aaatagatga tattttataa 120  
gtagcataaa aaaccaagag tccaagactt ggttcatact tagttgatag tatttcatta 180

ttaattttat tagcttaaac aattggcttg cactgctgtc cacaatttgt ctctgcatg 240  
 aagttataat caattaaata atcctaggaa tacttatggt tcattgtttt gtgaaatcgc 300  
 tgactattgg ttactacatg tcttaatagt ggttacatgg ctccagaata tgctatgaga 360  
 ggttacttga cggataaagc agatgtatat agc 393

<210> 16028  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16028

tctaaaagat ttgtgcaccc acaaaaggaa gctatttgca atgaaaggat tagcatgggc 60  
 agaaatatgt cagcatttat aggtaaattt gttcctcaca ttcctgagaa atgtaaggac 120  
 ccaggctactt tctgtatacc ttgcattatt gggaacagta aatttgagaa tgccatgcta 180  
 gatctatgag catcagttag tgtcatgcct ctgtccattt tcaattcttt atctcttgga 240  
 cctttacaat ctacagatgt ggtgattcat ttggcaaata gaagtgttgc ttaccccaca 300  
 ggtttcatag aggatgtgtt gggtcaggtt ggtgaactta tttttcctgt tgattnttat 360  
 gttcttaata cggaagaagg attttcccat ggtttagttc caattatt 408

<210> 16029  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16029

agcttagccc tagaggggat ggaccttttc aggttttgga gaggatcaat aacaatgcct 60  
 ataggttgga cctcccagaa gagtatggag ttagcaccac ttttaacatt tctgatttaa 120  
 ttccttttgt aggtggagct gatgttgagg aggaggaact aacatatttg aggtcaaadc 180  
 ctcttcaagg gggaggggat gatgcaatcc tccctaggaa gggaccagtc acaagagcca 240  
 tgagcaagag gctccaagag gattgggcta gagctgctta agaaggccct acggttctca 300  
 tgaacctcaa ggtagatttt tgagcccatt ggacaagggt ggggtccaatt atctntgtac 360  
 atatttgatt angatgtcat tatatttggt ccttgt 396

<210> 16030  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16030

tcccaaggaa gttttctcaa gaaatcttct caaggaatct acctagtcta taaatagaag 60  
 catgtgtaac acttattgta actttgatga atgagagtct tgtgagacat acttcaaagt 120  
 tccacttctc tccctctttt attccttcaa tttcgtgctc cccctctctc ctttctctcc 180  
 ctctttcttt tcttccattg aagcatctc tccaagcttc ttatccaaag ctcattcttg 240  
 tggcgaagct ctttcttcca tggcttattc cctagtggat ggcgcctcct ctcacctctt 300  
 ctcttttgtc ttccgctgca tctccatggt ggaaaatcac cattgaagga cctcatttaa 360  
 gctcanagat ccagcctcca tagaagcccc acaagcaagc ttccatcaag tggtaatcag 420  
 agcacaag 428

<210> 16031  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16031

atcttctatc aagtggtaat cagagcacia gagcttcaag tagtggtctc ttaaactctc 60  
 attaattntt tgctttacct tatcttccat tgttggttct tcattatttc tccatgtatc 120  
 tcttcacatg tcttgatgata aatggttgta acatgattct ttagagtctc caccgattaa 180  
 acttgctata gaagctagat ttgattttct atggctcaaa tttcttgctc ttgttcttga 240  
 accatgaatt gtgttgagtt taagttcctt tgagttttgt cttgttattt ttttgtagat 300  
 gaaacctaaa ccataaaatt cttacaaaaa tattaagta gaagaaaaac tcataaatct 360  
 agagtgactt gttcacctat tgtagtntg tcatataagt catgcctagt catgaaactn 420  
 gtcacataag aattcttat 439

<210> 16032  
 <211> 428

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16032

ttgagccaga atcctgtctc accataaacc ttgttcttgg tgagaatgtc aatccttacc 60  
ctcgggaagca aaaaaaagag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 120  
gaaattctca atcaaagagt gggagaaagc aaaaagaaaa gaaagaaaat tccaatcaa 180  
agaatgggag aaagaaaaaa agagaaaaga gaaaagaagg aaagaaagct cctgatcaag 240  
gatcgaaaga aaacagaaga aatgtgcaga aagggtctttt gaccagacaa tatctgaaca 300  
atacagaatt gtcaccaaat gaacaaaaga aagaaaagga aaccatgacc tanagtggtc 360  
ttatcccttt gattaccaac caaaatcctg tgcgtcgggtg acttgctcgc ctgcgcgcaa 420  
acaaaaac 428

<210> 16033  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16033

tctagettga aagtgtctta tgcttcatgt ttcaattata tgcaaaaagt cttatattca 60  
tcacaagtaa atattttata attaatTTaa ataaattctc attaaatata aaatatttgc 120  
tcttggtaga tatattaata atgatacaca ctatatgatt ttaatatTTa tataatatta 180  
aaaaatattt ttattaaatt tttgtgcgaa ttaaaattaa ttattctatc acgttgtctt 240  
gtgaatgtag tttattattg tggaatgtta acgataatct ttttcacatt atattttctaa 300  
cactntatat gattgattag aatttattca aaatgattaa ttttagtggg tctcacgttt 360  
aaatcgaaag aaaaaatata ttatntacaa atttaaaatg gatattaaaa agaaagtgtc 420  
aaaaaatggt act 433

<210> 16034  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 16034

tttgttttat ataggtctca tttttaagtg tttgttgtct cacaatgagt agattttctac 60  
 acttatcttc atatgatgaa tgcggtcggt gggggcattt aatgtttgca ttaaagtcac 120  
 gtccttttct catgtagaga atccactatt ctaagcttgc gtgttgagta ttaagcatgt 180  
 agtcacctcc tttttgtcaa agtagatttt gtacagcaaa actcttcatt tgatgggtgat 240  
 tgaaaaattt cataccttta tttcatttat tcttcataaa attcaacaga tcctaggaga 300  
 atattttctac aaaaaagatt tcatatatta aatatcatct taaatgttgt attagatcat 360  
 aatcatattt atctattgtc taacaaatta gacacaaact tttctaggca tgtntgctaa 420  
 aacatta 427

<210> 16035

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16035

agcttgacat cntttgatat atcatacaat cagtttgagg gtccacttcc aaacattcta 60  
 gccctccaaa atacttcaat tgaagcattg agaaataata aaggcttggtg tggcaatgtc 120  
 actggcttgg agccttgac aacatcaact gcgaagaaat ctcatagtca tatgacaaag 180  
 aaagtcttaa tatcagtttt accccttagt ttgggtcattc taatgcttgc attatctgtt 240  
 ttcggagtct ggtatcattt acgccaaaat tcaaagaaaa aacaagacca ggctacagat 300  
 ttactatctc caaggagtcc aaacttatta ttaccaacgt ggagtttggg tggcaaaatg 360  
 atgttcgaga atattattga agccacagaa tantttgacg acaaatatct ta 412

<210> 16036

<211> 425

<212> DNA

<213> Glycine max

<400> 16036

taaaggtggc accttatcct cccaccaatg agcctaccaa acctcacccc acaacgaatg 60  
 gtaccactca agtcatgagc atggacgaag gatctccagt ccaagccttg actatcttcc 120  
 aagtaagcct ggatgatgaa ttcgatgtag atccgcgtga tgacactttt gacagagtcc 180



caaagcctat tgaaagcttg tcaagctaca gcttaaatacc aatcttgagc aatctatgca 240  
 actcagtagg gacctcacca accataagca cagacacata gttgatgtcc tacacaggaa 300  
 cacggacctg tttgcttgat agccttctga catgtaggga atccacccca acattatctg 360  
 ccacaagctc atcatctgtc cccaggccaa actggtatca caatataaga ggaagatggg 420  
 agaag 425

<210> 16037  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16037

agtctctct accgtaaaan anaaaaacat tatcggccag tgagcgtatt taaaaagtaa 60  
 ttgcgcaatg tcaactgana aatatcagtc gggctacttc acgaccgatg tnggctattg 120  
 agttntctat gcaatccctt aatgaaatat ttatgatgtc ggtaaggaaa tgatcgatcg 180  
 gcgtcatgcg gtgatgcttc ttttttagac ctogatcggg catctatctt ggcggaacgtc 240  
 gactggcatt tttttcaatc aatatcggtg aaaaatatatt ttttgccgag atgggctaatt 300  
 gtnttctctg ccgaataaat gggaacatgc cagtttctgc tgaaacaaaa cgtctgttga 360  
 gctcgtctca aataacctag ccgacctaca ttgtacattt tttatgcaac 410

<210> 16038  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16038

ntacagcaga tnttagtaat gaccactaa cctagaatta aaataactta atgccattaa 60  
 gctaggggaat taaaaaacia acttaatggc tgagtgtaac tgaaattgtg gcaacaaaaa 120  
 gtcaccccca acagccaaca agtcagccac catttggtct cccaaaaggc tgatgcctat 180  
 gttgcccaatt ggcccttat tacaacttga actaaaccta actaaagccc ttttagttga 240  
 ttaacccaaa acatattttt ggtcagccaa ctggtacgaa aattgaccaa gaggagtga 300  
 aaatcaacac aagtgcatt caaagggaag ttaatggcgt gggggctgtt tggaatctc 360

atcaagggct gagtttaatt acttggtat ttttaagcatt gtcattcagtt aagacaaata 420  
aaattcagcc attcaa 436

<210> 16039  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16039

agcttgataa tggaggattt ccttgagggt cctctcttat gcaatcatgg aacacaactc 60  
caaactcaaa aatggaggac acatgaatga caacgccatt cattcatggn gctccgataa 120  
agggttaagaa tggaggattt gcttgagggt cctctcttag gcaatcatgg aacacaactc 180  
catactcgaa agtggaggac ccacgaacag gcctaagcaa tagcattcat gtggctccga 240  
aaaaggatga gaatggagga ttgccttgag ggtcctctct tangcaatca tggaacacag 300  
ctccaaactc gaaaatggag gacacatgaa tgacaacgca attcattcat ggtgctccga 360  
aaaagggtga gaatggagga tngccttgag ggtcctctct tatgcaatca tgatacac 418

<210> 16040  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 16040

tcttttggac cttgaacaag ccatcaattc ctcttttata accatgctat gtgctcgga 60  
ctgggccctt tcttcccttc gcaacttgag ttactattg ctaccccata gagctccgog 120  
aaatttggtc cggccatact ctctcttgcg agccctcttg gtctctcggt caagggctct 180  
tgcggttaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcagc 240  
caacttgaac ttctccttgg cgagttttgc ctttcctaac tcgcttttga gagcttggac 300  
ttctctgtcc tcttccggtg cttcaaaatt ctctctgctg acgactttta acttggcgag 360  
ccaatctaaa cctcgatgac gaactttcag ccattogtgg taccaccaa tgatgccatt 420  
acgaacgcct ct 432

<210> 16041

<211> 441  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16041  
  
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 cacattagac aatattcaac acttgatagt caatattttg ttactatgta gcttatctct 180  
 ttattcaaaa aattgaaaaa agcaacatat atagcaactt aaaataatat taagaaacaa 240  
 aaatgtaaat acttaattca atcaaaaaag ggaatgataa atcaaccaa aaataaatta 300  
 cgaagttata tatatatata tatatatatc aaaactctct acagaagaaa agtcaataaa 360  
 aatgcataaa tgaatntgta taantaccat ttgggataaa acaatnnttt ttntactana 420  
 aaacatagaa ttactcaca t 441

<210> 16042  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16042  
  
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 gttgcagcac cggtccgct tccctaacta tattggaggc ggttgcggtt gcggcagcac 120  
 cccaagattt ttagataacg taatgagtc agaacttctc attttataaa aagaacaaag 180  
 ctttcatcta gccaaagatta taaaagggtg ttacaaaaga acctaacgat tccctaattat 240  
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 ggcagtacac actttggcca tggcttttgc tttggctaac agacgcggga ggtcttgact 360  
 tccatttaag gtcaaggcga acctatccat ccacatagtc gcttcttgat gcaacgcac 420  
 aatcaccc 428

<210> 16043  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations



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 attcctatcc atgttggttaa gtccctcata gaaatattga agaaggagtt gctcagaaat 240  
 ctggtgggta ggatagctng cacacaattt cttgaatctt tcctagtact catacaagct 300  
 ntctccacta agttgcctga tgccttgaaa tgtctttctg atggcagtgg tcctagatgc 360  
 anggaagatt ttctccaaga acactctctt aggtcatccc agctgaaacg gacctgg 417

<210> 16046  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16046

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 tgtatgggat ggccttaggc ctataatgca ttttgaaaca atgggacatg ccacattgtc 180  
 cccgttctct tgctattgat gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240  
 aatggcatta gcgcgtgact tttgtaagga aacaacccat ggggcatttt ggtttgcaca 300  
 tattttctat tttttggggc atgcattcgt tcctgaaaag gttagagtaa ttgccccaca 360  
 tatattctag gcctaggaac caaagttnta tgcaaaaaga acacaagagg aggtgcatat 420  
 tgngtaaagt tacc 434

<210> 16047  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16047

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 taccatgttg ggaagtcgtc aaagagatat cttttgcctg attcgtgtgg caaatacagc 180  
 aagtccatca ctaaatacaa gcaaaataga gcaccctttc atcacaaatc tggattctta 240  
 caaagattcc gagagcatgg tatatatata atctttaaca acttaaattt tatttttctg 300

tattgcttag ttgcaagata tagaacaatc ttctgtcata atttgtatga tgcataatTT 360  
gacatgatta ttggaaaaca aaatgaagct cttattgatg gctngaaact gtngttgtaa 420  
aatgcagt 428

<210> 16048  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 16048

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gtattagtag ctcttttagc ccttaatctt tttaggcaca tacttgaaac tgacatttgc 180  
aatttttttaa tgcttgcaaa agtttgagac aattagtttt ggttggatca ttctgattca 240  
tgattcaagg agcaaaatTT tcaactgaatg tgaaacaaat agtatgattt tcctgaaaac 300  
tatagtcaag tgttcttttag gatcttaatt tgtctcccgT ggaccctgat tattttttat 360  
aataataact tgcaggaata tgaagacaga ttaacggttg taaagattga tcatgatgcc 420  
aaccgcagc 430

<210> 16049  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16049

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acttccaatt agtaccaacc attgaagaat ttgaggaaat tctaggatgt cctctcgggg 180  
gaaggaaacc atatctttcc tccgggtgtc tcccctcttt gagcagaatt gcaactgtgg 240  
tcaaggattc agccagaggt ttggaccgca taaaacagac tcggaacggc atagcggggc 300  
tgccacagaa gtacctagaa gacaaggcga ggggtatggc caatcaagga gactgggtcc 360  
cgtttatgga tgtgttagct nntgctaatt ttgggggtcat cctctttcca aacgtgga 418

<210> 16050  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16050

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 tgtatgagat ggccctagga ctataatgca ttttgaagta atggggcatg ccacattgtc 180  
 cccgttctct tgctattgac gcctaaacgc ggcgccacca agtggttcggt gaaatgcctc 240  
 aatggcatta ggcgctgatt tttgtaggga aacaacccat ggggcaatct ggtttgaca 300  
 tattcttggg acatgcattc atgttcgaaa gagctagagt aattgccccg catatgtcct 360  
 atgcctagga accaaagtct ttatgcaaaa agaatacaaa aggaggtgca tatcgtgtaa 420  
 agttaccc 428

<210> 16051  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 16051

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 gcttgagaag aaaggtaaata caatctcatt agtatgttat gaatctaata tggttagtgt 180  
 taatattaac acctggtgga ttgattatgg atctactatt catattgcgc attctttata 240  
 gggatatgcaa aacctaaaga aaccagtgtg aagtgaagcaa agcattttat caagcaataa 300  
 gctatgctca catgtggagg acattggaac ttgcatattg actctaagta gtggctttat 360  
 tttagaatta gaaaggactt tgtatgtacc aagttcttcc cgataactga tttctatttc 420  
 aaggcttgta ccgt 434

<210> 16052  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 16052

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gagtttaggtc tagccacggc ccacgagcat agaatcgcg acgagtatgc tcaagtatac 120  
gcggaagagg aggctagagg aagggtgatc gactctttac accaagaggc aaccatgtgg 180  
atggatcggg ttgctcttac cttgaacggg agtcaagaac ttccccgctt gttagccaag 240  
gccaaggcga tggcagacac ctactccgc cccgaagaga ttcattgggct tctcggctat 300  
tgtcagcata tgatagactt aatggccac ataattagaa atcgtttaga aacttgtatg 360  
gtctctcaga ccttgactag atacgacttc ctttttgaaa tataatgagt tgggtccatg 420  
tttctactc 429

<210> 16053

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16053

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gaagtcctaa cggtttcact gttgaagcaa gtaaaacaaa atatgccaga gataaatgag 120  
cgaagcagct ggaaaatcta ctagtggatt tggcattttc tccaaagagt gtcattctata 180  
gttcagtcca ctacagaagt tatgtacatc acttgtagtg aaactggagt ggaaatgcaa 240  
gtactgacca acagttagtt gtgtggcctt tgtgatacga atatacttgg aagtaaaaag 300  
tagttggaca aaaggggtcaa acaatgaact ctgaatacgt gtgaatgaag ttattcaatt 360  
gattggcggt gattcttcat cattgntgag ttcataaaag aaaggatcct taaggagatc 420  
tgt 423

<210> 16054

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16054

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 ccaattcttt taacagaacg ttccttctgt ataaaatgct ccaacttcaa taactaagct 180  
 agaaccaatt tgatagtccc actacaatat ttgtggaaga aatagtgaca aaactgggtt 240  
 cattcatgga agccaagatt gataacattg acttcacaaa atgttgctgc atagcttata 300  
 ctaaattaga caccaccatt aatgaaacat tgcacttagt tcatatcaat ggtgtcgtca 360  
 gctatcaact gantttccca attaaaaatt tgттаатgga ttntttggaa atttgaggct 420  
 gtagtatgct 430

<210> 16055  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16055

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 gattgtttgt cntaatcaaa ttgtactctc accttgcttt taggaaagat ttgtatgaac 120  
 tattatattt tgcattgtctt tttaaattgt attatctttt atttaatatata gaaatagctg 180  
 aaacttctgt ttttgatgtc ttaattttgt ttcaagattt tctgaatgga tgcagcatga 240  
 ggaatatatg ctttgttggg taaattatga gatagtcac ttctaagcaa actgttattg 300  
 tcctatgttt gaaaatgtac agaattgtga gctctatcaa gtattccacg tgggtgactgg 360  
 tactgccaat ttgccaataa catgttccag agagaaaagt ttgtggcgca caacgccaat 420  
 gctgtggcag ct 432

<210> 16056  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16056

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 cgcgattcgc cagcccaaag acactccac catttgcttt tacttttact tttgtttctt 120  
 tttatttaga ttttttttta tgtgaatgaa agccagaaat catgagattt ataacagttt 180

atacacgtta aatcaaatta actaaactcc ttgataatat atttgatcag tactatataa 240  
 ttttggtttc ctagatttca attatgagaa ttgcatattt ttatatatca taattgtgtg 300  
 attttaattt tttttaattn tttgttataa attttaaaga catggcacta aataacgtgt 360  
 taatgatatg atagttgatg tagaatttgt gcaattgaaa cnttgagcga caaanatcac 420  
 ataattgtg 429

<210> 16057  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16057

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 agaatgtcat ggatcactgt atataccaga aggtcagtgaggagtaagatt tgtttccttg 120  
 tattatacgt agatgacatt ctgcttgcca ctaatgataa gggatatgcta tatgagggtga 180  
 aacaatttct ctcaaagaac tttgatataa aggatatggg agaggcatct tatgtcatag 240  
 gcataaagat ccatagagaa agatctcgag gcattntagg cttgtctcaa gaaacctata 300  
 tcaacaaagt tttagagaga tttaatatga aagattgttc accaagtgtg gctccattg 360  
 tgaaggggtga caaacttgct ntgagtcaat gccccaaaaa tgattntgag cggggaacaca 420  
 tganaaatat tccatatgc 439

<210> 16058  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16058

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 ctttaaggaat tttggagctt tggaattggt ttgggaataa gtgtgggggt ttttgtttca 180  
 ttggataaca tgttttgttg gctatgcttc atgatgtatt ttgggccata cttgatgtac 240  
 attgtatatt gggttaaatgt tggacatgct gaatgagatg ttgtttctca aaggctacgt 300

acgtaaaaaa aaaatcgaaa aagaaaaaga aaagcaataa agttgagtga atatgatctt 360  
 aaatgacaaa agtatgatga gactctnggt tctactctnt atgttntaaa tttatcttta 420  
 cttct 425

<210> 16059  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16059

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 tggataaaat gataaatcaa agtaaaactt tcaagtaaac ttaaataatta ttgttcctaaa 120  
 agttactctt aaaatatcat attttgttgt ataacagaag ctggttttca tttttctctt 180  
 aatatttctt ttgtaaattt tttttaataa aatatcagag tataatctttc gtaaataagg 240  
 ttttcctaaa aaaataacta agcatgcatg caacaactaa aactaatgag aagcaataat 300  
 aaaggacaca tcacacgaag gatttatatt ggtttactcc aactcgggct atgtactgta 360  
 cctacatata tagcatntct ccactaatac caagcaatcg actaaggaat tatttctctc 420  
 ctaaagcctc tgtaggctcc taaa 445

<210> 16060  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16060

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 gtcgtttacg ctgaccacat gacagcgga gagtggtatg cctcaagtct cacaatcagt 120  
 agatggacta aatgagtcga gcctacgaca cagctggtgg catacactga cctgaataat 180  
 ctgagggata cctagcttga tccgagagaa gaatgacaga gggaaaatat gacggaagaa 240  
 gtgcagcctt ttctactcag tagagaaaca tcccagtgc ccaaactcaa atagttaatg 300  
 atgcgagagg tggaagaaaa tattacccat gtactagaag ctaatggaga cttattctga 360  
 tggtcagat cagatatgcc tataatcgac tctaagattc cactatcaca agctangaat 420

ctatctagaa tctaaacctg ttgtgcaaag a

451

<210> 16061  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16061

agctattata ttgggaaaag ggtgtgaata acgattagtt atgtagagac aagacacgat 60  
agatacaatt gtgaaaagaa ctcatattata tgcactctga agtanaagga gaattatgac 120  
actaacccaa gtccaacttc tcaatgattc ttaataacat tgcccttata ccatttgtct 180  
atgcaattat tttctcgttg acactaatta gaaagcaacc tagaaaatcg aacgggtataa 240  
tttactcaag aggtgaaagt cagtatatat gatctttctt ctatataatt aacttgatgg 300  
ttatatgtct ttggataaaa agtcaagagt ttctgttatt gttatctggt acgtaagact 360  
attcctaata a 371

<210> 16062  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 16062

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caggtaacat ggaacatgga atagatgcta ctccaataac ctgttgggca gaaaacaata 120  
gcctttccaa actgtgtttg caatcaaata agtttgaagt atctactggg ggaaatgatg 180  
ccggtctgtc ctgcgagcct aagattaaac ctctaaattt ttttaactgt catgaaagca 240  
gcaaaaacaa cccagtggag actaaaaatt attccatctt gggccatagt aaggacaagg 300  
aagaagtggc atcacattca tcttcaacca aacaaaatac agataataat gataacatcg 360  
attctaatagt gctatgtgat agaaaggaag aagagaatat ctgtcacaga agagataatc 420  
tggaagtct gtgg 434

<210> 16063  
<211> 376  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16063

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ataaaaagttg agacatcaca atcttaaaaa gctcaaaacta tgaaacagtg gtatacaaca 120  
attattgatg tgaatatatc tgcattgatg ttcaagggtc ttggagctat tctcatatta 180  
atgggactnt actcggatct gtggggcaag cacaaggaga acaaagagaa agaggcagag 240  
ataaccattg aggtattgaa gtgttgatca taaaatggga tgagggttga gactgtggta 300  
gaatatgctg aaacaaacaa cgacattgag atgcaaaagg gtgaagcctc aagagagcta 360  
agggtagcca ttggag 376

<210> 16064

<211> 433

<212> DNA

<213> Glycine max

<400> 16064

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tgactttttt ttatcgggta atgaatatgt acttgttgca tgcattatta acttatataa 180  
tacttacttc caaccattct tgagttcctg atgggtccca tgctgctaaa ccaccttttc 240  
tactctgcaa taattaagag aaaaaagaac cacagttgca tcaaagtaa atattctagt 300  
agtaaaagta aatcaaacat caattattaa tgcgtctgca gctaaccoca acttcccaat 360  
gataaaagat taaacaaaga gaaggaccat caattgattg atctattaat taattaaaag 420  
catatgacca tga 433

<210> 16065

<211> 186

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16065

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gtatccgtaa ctttgttttg aagctcaata caagccttaa gtgagaaacc atgaactcac 120  
 cttaccctta aagaattatg gagctgtgga attgttttgg gaataatctg ggaataagtg 180  
 tggggg 186

<210> 16066  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 16066

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 gctcaaaggc caagaacact tcatgataac aaagatgatg atctcaagaa tcaaagaatg 120  
 agttcaagat tttcaagatt gaatcaagaa cacttcaagg ttcaagagga aatttgattt 180  
 caagaatcaa gaatcaagat tcaaggttca aggttcaagc ttccaagaat caagatcaag 240  
 attcaagact caagaatcaa gaatcaagag aaaaattaat caagataagt atgaaaattt 300  
 tttttcaaaa actgagtagc acatggattt ttctcaaaac ttgtttacca aagagttttt 360  
 actcttttgt aatcgattac cagattgtgg taatcgatta ccagtagcaa aatattcttg 420  
 aaaaagtttt caactga 437

<210> 16067  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16067

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 ccactattgg cacaccttta gactcatcat gaatctaana aactcaagta ttgtttaaca 120  
 ctaagccatt nttggctttc acaaacaaat aatgtttgat tgaatacaca aatttaaattc 180  
 actcaacata gtggataaac aattaagctc gaatacaaat aataactttg atatgtaaat 240  
 gatgaactaa ttaagcacta ttatgtatca cccaatgact tgacaatttc tcaacttcaa 300  
 atgctcttgt ttttcacttc gtattttcgt tttttttctt cttgcacttg ataacgatgc 360  
 cttggctact ntttataaac ttcatgaaag tattcattac gagattatng tttgtctctg 420  
 aattgaccgt tgtcttac 438

<210> 16068  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16068

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 cgaggcactt ccgtaacggt tccgtaacgt ttccgtgggt gatttcgcga aggttttcga 180  
 ccgtttctcg acgtttctca ttcgttcttt gtcgttcttc ggtctccaac cggtaagtcc 240  
 cctaaatcaa acttttcaat tcattctatg tacccttagt ggtcctcatt tgcttttatg 300  
 ttctttcatt tacatttcat ttactttcgg taccctcttt tgacgtgctt tagtcatttg 360  
 cttaaagtat tttctcgctt aatcaanaaa taaaataaat gtccaccggt catttgaatt 420  
 gtaacat 427

<210> 16069  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16069

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 tagtcgaaga gaagttcaag tccatagcca tcaaagtctg aanagagtat gatgaactaa 120  
 gggacgtcaa tatggccaca gctgaagcct tggaacgaga aaccaagaag gcccgaaagg 180  
 aagaacatga ccaaaacaag ttttgagggg ctttataggg cagcaatagt gagcccaagc 240  
 tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg acgagctaaa 300  
 ggcttgccctt angtcgaaaa gaaatttgct ccaacagtta aagcgagact gaagggaata 360  
 tgtggggccat catcgataag tgcaaagaga agctaaatct 400

<210> 16070  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16070

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aagataagta tgaaaagggt ttttcaaaaa ctgagtagca catggatttt tctcaaaaaca 120
tgtttaccaa agagttttta ctctctggta atcgattacc agatttttgt aatcgattac 180
cagtagcaaaa aatgtttttc aaaaaacttt caactaaatt tacaacgttc caattgattt 240
caaaaagctg taatcgatta caatgatttg gtaatcgatt accagtgtgt ttgaacgttg 300
aaattcaaat tcaaattgtga agagtcacat cctttcacat aaaagctgtg taatcgatta 360
cactaatttg gtaatcgatt accagtgtgt gtttctgaat aaatcaaaag atgtaactct 420
tcnaaatggt ttt 433
```

<210> 16071  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16071

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agttttatgg gcctacgaat aattnttggt tggacaataa catattaaat attaaaaatt 60
aaaaagaaaa ttntggacag gtaataaagt atatggttg tatttgatg cgtaaaactt 120
aaagagtcac tagagagggt ctctctctct atctctctcc cgccattgaa gtaaagtaac 180
tatctatcgt tctgagaatg agaatcaacg cattctgtgt ctccgcctct gcttctatat 240
attctccttt tcctaatacca catgtacttt ntcgggtttt ccattcttct gttatgtatt 300
tacactaatt acttttttagt ttaaccactg tgactctcac tgattaatcg tgttatctct 360
aggggtgcgct actgcaagat tggaagcttc ggaagcat 398
```

<210> 16072  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16072

```
ntgatcagaa gctcctcttt gaaagagcgc aacttgtcta attgaggaca tagcgcatga 60
```



tctcggtcga tcattatgca tgctgcttgt gccagcctt gaagtgtcca tagattttag 120  
 agaaaagatt ggcacattgc aaaaacagct gatgaatgcg agatttggtg ggaatatgag 180  
 tccaacttca agttcgatat caagatttgt caatgaagcg aaggagggag gggaaataga 240  
 agaggagata attgatgtta ctagtgatga tgttttacta cagcttaaga atggatgatgc 300  
 cgaggaattt gcagttgcac tcttaaggct aaaaaagttc atcaggggtg gaaaactgga 360  
 tagcgggtta attaattgtg aagctgctgt ttccattctt ttttaaccgtc cattttcgtc 420

<210> 16073  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 16073

tgcttttaaat aggctctaaa atcgcgacgt tgcacttagc gccaccctcg tgcttagcgc 60  
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 gcgcttagcg cactggtctc gtgcttagcg cccggccttg atattcacgc cctgccagat 180  
 tctccttcgt gctaagcgcg atgtgtagaa acaagcttca tgatgatgaa tcaagttgat 240  
 tcaagtagtt ttgatgatga caaagatgat gacaaaaagc ccaagagaat gatttcaaga 300  
 ttgagtcaac aagttcaaga tcaagtttaa tttcaagttt catgagaaga aatcaagaag 360  
 attcaagaat caagagaaat ttgatttcaa gattcaagag aagatgaatt caagattcaa 420  
 gagaagaaat caaga 435

<210> 16074  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 16074

tcatgatgat gaatcaagtc gattcaagta gtttttatga taacgaagat gatgacaaaa 60  
 agcccagagag aatgatttca agattgcgtc aacgagtttc acgaatcacg agaagtgtga 120  
 ttttgagatt caagagagga tgaattccag attcaggaga agaaatcaag aagacttcac 180  
 aagggaagta ttgaaaagat ttgtcaaaag acaaacatag cacagttttg tttttcaaaa 240  
 gagtttttct caaaattttc taagttacca gagtttttac tctctagtaa tcaattacca 300

gtttcctggt gtcgattacc agtggcatag tttgatttcg aaagctttca actaaattcg 360  
 caacgggtcca attgatttca aaatgggtga atcgattaca agatattggt aatctattac 420  
 cagtgtatc 429

<210> 16075  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16075

agcttgtcgg tgatgggac caactttcgc cacaatactt atctttatta tattttggac 60  
 agggacagaa aatggatgct atgccctttt gctaaacgta attntaaata ataataataa 120  
 taatataaaa agttacatat tacattttat ataaatcgta ttccaataaaa cttgtttcca 180  
 aattttaaga gaaacttact taagggattt agagcattat ttogatgata atctttatat 240  
 gagttattta attttttttc ttattgaaac atgtgacatg gcattattta tataaacaat 300  
 cgttatttaa taaatttata ttataaataa aatatttttc aaacataata actcataaaa 360  
 ttaagttaat taattatttg agccatttta acatcagaat aaatntcata caaaatattt 420  
 aaatttatgc aaaatt 436

<210> 16076  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16076

tgtccttggg ttagacatga tttatacatg atttattact tgtttgattc aatttgggca 60  
 aaattggacg agggcaagtg tgatttcgaa aatctgcact attatgcaga attttgctgt 120  
 tgaaatgtgc agcagaattt tggctttgtg cagaaaatga tgtgtatttg ctggttgtgg 180  
 aaagagtagt atagattggg ttctggatgt tttctagcag atcccaatgg tcacaatgta 240  
 gatttatgta ctatggacct ccagtaaaat tttcgagtcg atccaacggt taacgaattg 300  
 gaacgaagag aatgttactg gggatattga gtaaggaaag ctacggcatt gggttgtgtt 360  
 tttgggcaga gttttctgtc tttgccctgt tttcttggtt ttgatagttc atgatgtttg 420  
 gat 423

<210> 16077  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16077

gagatgcntt gagctgacgt ctcactnctg ggcgatnctc tcgncccgtg atacttataa 60  
 tccagctgcg cgctttttat ttttccttaa agagatctat gaaagataaa gcggcttttaa 120  
 gaaacaattt ctgctccgaa tatgacaacc accgttttat gaatgctgaa caccatcagc 180  
 actttcaggc catcaatgga tggatatttc tcttggagcg acacgtccag ctcatggacg 240  
 accagtatac cgactttcaa gaagagaaaag ttagcccgcg gtggacatca ctggttaccc 300  
 ccatggccaa gttctaccca aacgtaattc tcatagttaa tgcaaatgca tggcctatat 360  
 acgaagactt gccagatatg cgatcctatg tgaggggtca ctggatatct ttcgatgagg 420  
 aagctcctca ccaactntctg agataccctc taatgcttta agaggctcta gaatgtgaat 480  
 ttgcctaaga agaaccgct tcaccgattt gatga 515

<210> 16078  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16078

tttcgtaaaa cttatggtaa aatctgggac ctatccatgg tagaagtctc cacagagacc 60  
 attgcctccc tcgccagta ttatgatcag ccgatgaggt gcttcacctt tgggaacttc 120  
 catctatcac ctatggtaga agaatttgaa gagatcctag gatgccctct aggggggagg 180  
 aaaccatacc tcttcacagg gttctatccc tcattagcta gaatttccaa gatagtccaa 240  
 atctcggcgc aggaattaga ccacaggaag caagtcgaaa atgggggtggg tgggaataccg 300  
 agaaaatatt tggaggcaaa agcaagaatc ttggtaggta aaggcgagtg ggccccgttc 360  
 atagatatcc tcgcactggt gattntcaga ggagtcctct ttccaaatgt ggatggggtg 420  
 gtggacctg 429

<210> 16079  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16079

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ttgcttgatt tgtgagttga ntttagcctt agtttcactt tggttattag tcaattcatt   60
caaggaaact tccaaagaat aacgtccaat caattntgta ttntatatta tttaaagata  120
ttttgactat tttattatta ttttgctttt tttggtttaa ccgagggttac agcgtgaacg  180
atcaattaga ttttggttta acagtgatta aacgagatta caacacaaat gatcggttga  240
aattcatttt atcatttatt aggtgagaaa acgacttaca cgatcggtta aagctcgtta  300
aaaatggaag agaagaaaac cggacatgaa caaatgaat atgatagcta aaaaacaaga  360
gatgaattga aagcatcgga ttc                                           383
  
```

<210> 16080  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16080

```

tcaacttaaa gagagtagtt caggcttagc gcaacatgcg cgctaagcac acttccaagc   60
atttcaaaaa caataaagaa ttggcactta ggcgcacctg ccgctaagcc catctcgtga  120
aagttcaatt ccagaatgga tctgtggctt agctcaggac agcgcgctta gtgctgctac  180
aataaatttt tccagagaag aagttgcgct tagcgcacatca tctccactaa gccactgct  240
tgaagtttac ttctagttaa gatgttaggc ttagcgcagt gatgtgcgct tagttgaact  300
attcagtcaa ctagtcaggg gtctaagcgc ttagcgcgaag agagctcagg cttagtgcgt  360
gaagacatgg cgcttagcgg atggacaact ganaaaattn tcaaagtctt ttctgtccat  420
ctcttcac                                           428
  
```

<210> 16081  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16081

tagcttcaac attcaattnt gagcgttntg atatattacg atactcaatc ggacatctga 60  
gtaaaaagtt attgtcgttt gaatttgctc agagattcgg tattccattt cgagcatccc 120  
gatatattac gggactcaat cagacatcca agtaaaacgt tattgtcgtt tgaatttgct 180  
aagagcttcg ataatcaatt tcgagcgtct cggtatatta cgggactcaa tcagacaacc 240  
gattgaaaag ttattgtcgt ttgaatttgc taagagcttc gataatcaat ttcgagcgtc 300  
tcggtatatt acgtgactca gtcagacaac cgagtgaana gttattgtcg tttgaatntg 360  
ctcacagctt caacattcaa tttctagcat ctcgatatat tccatgactc aatcatacat 420  
ccgagtaaat agttg 435

<210> 16082

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16082

ttgagcaaat tcaaacgaca ataagtTTTT actcgatgt ctgattgagt cccgaagtat 60  
atcgagacgc tagaaattga ataccgaagc tctgagaaaa ttcaaacgat aataactttt 120  
tactcagctg tctgattgag tcccgttaata tgtcgagacg cttgaaattg aataccgaag 180  
gtctcagcaa attcaaacga caataacttt ttactcgggt gtctaactga ctcccgtgat 240  
atattgtgac gctcgaaatt gattaccgaa gctctgagca aattcaaacg acaataacgt 300  
tttactcgga tgtctgattg agtccagaaa tatgttgaga tgcttgaaat tgaagactga 360  
agctctgagc gaattcaaac gacaataact ttntactcgg atgtgtgact gagtcccgta 420  
atata 425

<210> 16083

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16083

agcttattat atattgatac gctcgaaatt aaacgtcgga aactctcggg aaattcaaat 60

agccataaat nttcacacgg atgtccgatt cgggcgtata atatgtcgag aggctcgaaa 120  
 ttgaacaatg gaagctcttg agaaatttaa atgggcataa cttttcacac ggatgtccga 180  
 ttcaggctta taatatatcg atacgctcga aattaaacat cggaaactct caagaaattc 240  
 aaatgggtcat aacttttcac acggatgtcc gattcgatcg cataatatgt cgagaggctc 300  
 gaaattgaac aatggaaact cttgagaaat tcaaattggc ataacttttc acacagatgt 360  
 ccaattcagg cttataatat attgatacgc 390

<210> 16084  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 16084  
 tgaatcggac atccgtgtga aaagttatga ccatttgttt ttcacgagag cttccgttgt 60  
 tcaatttcga atgtcactat atgtgatgcg ccaaaattgg acattcgagt taaatgttat 120  
 gaccatttga atttctcaag agcttccggt gttcaattct gagcgtctcg ttatgtgatt 180  
 tgtctgaatc ggacatccat gtgaaaagtt atgaccattt gtattttctca agagcttccg 240  
 atgttcaatt tcaagcctct cgacatatta tgcgcccga tgcggacatcc gtgtgaaaag 300  
 ttatgaccat ttgtatttct caagagcttc cgatgttcaa tttcaagcgt ctcgacatat 360  
 tatgcgcccg aatcggacat ccgtgtgaaa agttatgacc atttgaatat ctcgacagct 420  
 tccgatg 427

<210> 16085  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 16085  
 agctttttata agaaagtga gtcaaaaact tttaatgttg gagatttagt ttggaagggtt 60  
 atcctgcccata tggatagtaa ggatcgagcc ttgggcaa at ggtccccata ttgggaagga 120  
 ctcgttaaaa taattcatat ctattcgaat ggtgcttatg aattagagga attaaccctt 180  
 cagaaacgta ctttgagtat aaatggtaaa tatttgaaaa aatataaacc aacattgctc 240  
 gaagttaa at aagcatagaa ttacagaaga atggaacata aaatgggtata acagtaaaat 300

tgccacaaag gcatgtgtca aatt

324

<210> 16086

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16086

tgtccaatga ggtgacaatg aanataccta gtgttactat ctgatataca gtttttgctg 60  
ctcgttttat tgtcaattcc aactgcatca atgcatcttt aacaagcata ccacgaacca 120  
gagcagcaac caagttgacc ttctttggac tctaaaatac catagaaaac aagggtatgta 180  
aaatgtgcaa ctagtcagat attaatacaga tccttcttaa accataaatt aaggcatttt 240  
ccacagcaaa ccaggggaagg catttcaatg gctaaaaaat tagatgcaa cttttctgca 300  
aaataacatg ttggttaaaa cacagaagtt tcttagcaag tagctaggca gtggcaccac 360  
ataaatgtaa caaaacattg taattcttca atatttatgt tatggctaag ctgaacatac 420  
ttgtgataat acttatg 437

<210> 16087

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16087

agcttatact aagttcagcc taccatcctc agtcagagga tataccgaag actgctttta 60  
ngatccgta tggctactat gagtatctag tcatgccctt tggatgact aatgctccag 120  
gtgtgtttat ggactacatg aatagagtat ttcaccctta ccttgatagt tntatggtag 180  
tattcataga tgatattttg gtataactcta agactagaga ggaacatgaa gaacacttga 240  
ggattgtgtt gcataccctt agggaccgac aactntatgc taagctgtcc aagtgtgagt 300  
tttggttaga gaaagttagt ttcttagggc atgtgatatc tcaagggggt aaacctgtag 360  
atccctctaa gatagaagtc gttcttgagt gggagagtcc taagctnttg tgtgggatac 420  
ccaatgtaag catagttt 438

<210> 16088

<211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16088

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ttgagccaaa atcctgactc accataaacc ttgaccctgg tgataatgtc aatccttacc 60
ctcggagca aaaaagaata gaagggaat ttccaatcaa agaaaagaga aggaaaattt 120
ccaatgaaag agggaaaaag aaaagaaagg aaattcccaa tcaaagagtg ggagaaagaa 180
aaagaaaaga aagaaaattc ccaaccaaag aatgggagaa agtaaaaagg gaaggaagct 240
cctggtcaaa gaaaccagag aggtctttgg accagataat atctgaacag tacagaattg 300
tcaccaaag aacaaaaagg aaggaaagga aaccacgacc tanaatgggc ttctcccttt 360
aattaccaac caaatcccg tgcgctagcg accctttttt ctgccccgc actanaaaaa 420
aaaa 424
  
```

<210> 16089  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16089

```

agcttcttag tttcagatga tgcagctgag tttgtagcta cctcatgcac tcttctaag 60
attataacat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
tgtctagctt caataggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tcttccataa aaatattgga gaagaagctg ctctgaaatc 240
tgatggtgag ggcaactagc acatagtttt ttaaattctt cccagtattc atacaggctc 300
tctccactga gttttctaata acctaagtta tcttctctga tggctgtggt cttggaagca 360
nggaaaatgt tttctaagaa tactctctta aggtcatccc agctcgtgat gaaccttgga 420
gcaaggtaat ac 432
  
```

<210> 16090  
 <211> 432  
 <212> DNA  
 <213> Glycine max



<400> 16090

aaccaaagtc tcaccactgc tagaggagaa gcctttatgt tatttcatat aaacctctc 60  
ctctaaatca ccattaagaa agcatgtttt cacatccatt tgttgcaact caaggtcaaa 120  
ataagcaact aatgccaaga taatacgaag agaactcttc ttagatacag gagaaaaagt 180  
cattgtgtaa tcgattcctt ctttttgagt aaatccttta gcaacgagtc ttgccttgta 240  
tctctcaatg ttgcctaag aattgttttt ggtcttaaag acccatttac aaccaatggc 300  
ctttgcccta ttaggcaact ctacaagggt ccaaactcca ttgctctgca tggaattcat 360  
ctcatccttc atggaatcat accataaatt tgactcttta caactcatgg cttaatcaaa 420  
atatttgaga tt 432

<210> 16091

<211> 408

<212> DNA

<213> Glycine max

<400> 16091

agcttgcaga agaataaagt tcaagggtcaa gggaagcaga tagtggaaga aagaaaatgg 60  
agaataggaa taagcggaag agagaaaaat ggagaaaagg aaaaactgaa tattatgttg 120  
gataatgctc aaatgagcaa aactcacatt tacatgaata catttgtcct tatatgacta 180  
aagctagtaa gttgttacat aattgggttac aagaataact agcttgtaac taactaaaac 240  
taactaatgc tagtaacact agtaatctat atctctaata caatgctcaa acaaaccata 300  
aagtaaagtc atgaattcag gatccataca tattattctg gtggcggtg aagacaatga 360  
catctgcacc cagtctcata ctaccagtct tgaagccatt tccatcta 408

<210> 16092

<211> 374

<212> DNA

<213> Glycine max

<400> 16092

tgtatctttt atgatgaagc agctatgaag tatttttcac tagtgaggc tagctgcata 60  
aatcaaaaga caccattgtt ttctatcttc aactaaacct ttgctagtc catttagata 120  
aaatataaac ataaaaaaaa aatccagggt ttcattgtcta ctctagtcac gatgatcagg 180

ttttgggtaa tgaaacacaa ataactctga aattttttga gagaactaaa taagaaaaat 240  
cctaacaata aggggaaaaa aataattaag aaaatcaaga gatgtacaca ttacagatgt 300  
acaagaaagc aggatagtga gaccctaga tcaacccaaa aaaggatatt tagatttcca 360  
aatgttttta ttat 374

<210> 16093  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16093

tatcttgtga aatatggcat aacaaatatt gacgaatgtn tgtttatggg tcagactatt 60  
ctagagcaat tggaaggcct tcctaggcat aaagcanatg ccagatatgt gaactatggt 120  
gcagaanagg acaaaaataa tggtaattta tatgattctt cacttttagc taataataac 180  
atggagcttt tctctgagcc tgagcatgct aagggtgttg gtcattgttcg taagctttca 240  
aatgagagtg ttgaaagcga tggaagctca atacgaggta gtgacatgtc taattttggg 300  
attccaagtt catctggtga tggctctcat gaccttcctg gatctgcttt ggtttcaaga 360  
gagacagata ttatgggccca cacanagtgc aagtctactg gtgaatactc aatagtcctt 420  
ccactagat 429

<210> 16094  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 16094

tagtgtagaa ctggccacca aaataacctt ttttaattta tgagttgatc aaaatgaaac 60  
cctcgtgcaa cataaaaggc agaagcaaat aataattatt tacctctttt cttctctcag 120  
ctcgctcatc acacttgaaa ctgaatccat attttgggag cgccccacc ctgagaggtt 180  
tggcatcttc tgcagtagga cttacaactg gattaaggat aaaccataaa tacactgtgc 240  
cactctcagt acaaaactaa caacataaat aatataaaca aatccacatt agctcccat 300  
tgctctcac caccataaac aatgctcaac caggaaaaaa aaggatacga agaagattct 360  
gcttctcctt gaagattatc atgggggatct ttcttcgata attgtggtct agtcttctcc 420

ctgtat

426

<210> 16095  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16095

agcttctccc ctaattntct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60  
cttaggcact tctctctctc tcgaaatagc tgaggaaaat tagttccgtg aagaanatcc 120  
aagccgaggc gcttccgtaa cgtttccgtg agtaattacg cgaagattct cgaccgttct 180  
tcaagattca tcgttcgttc ttcattttct tcagtcttca acgggtaagt acctcaaacc 240  
aagcttttca attcattcta tgtaccctg gtgggtccaca ttntgtttca tgtattttta 300  
ttctcgtttt catttacttt ttataccccc ttttgacgtg cttaagtcac ttattttaagt 360  
catttctcgc ttaatctaaa aataaaataa atttccaccg atc 403

<210> 16096  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16096

ngagtaaggc accccttttg tttgaagacg cgttcttggt gagaggcatc cacataaagt 60  
tctccacaga aaatgcttta tcttgggagg tatacgaaga ttccatatag tggaccagct 120  
tccttgaact ttgagagctt ctttggtcac catagtctcc attaaaatat gataatctga 180  
tcaaaccgag tatgtcccca tggactaac tttcaaaatc aaaatatcag aatcatgaag 240  
attgaagagt ggcacatctt ttatttcttg ggaatcttct ttattgaaaa attgatcagt 300  
aacctcaatg ttccaactat tgctttcaac atcaataagc gaatgtactg tcaaatgttc 360  
aagacaaaa agaggtaagg acgaaacata atacttatct ttattctg 408

<210> 16097  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16097

agtcttgtaa caaggaaaaa taaaggaaac aggaacatc ataattcata aggagttctc 60  
tgaccttcgc caattcaata gtgctcagat ccattccgat tctgggttgta tagaactccc 120  
tagtcataaa gtcctttcag tatatgaatt tgtttgcaaa atttccagca gaaaccaact 180  
tccgaaatat ataagaggag gctaaagata tgtagagttg ctctgcata aatttagaac 240  
ataacaagca gttcaagcct caagctagga agtaaaagaa aaattttaat tctgatctag 300  
agcagaataa ctaacatagc atactgtgct acattacttt cgaggcttca attactcana 360  
tcagggttaag ttcataagat agatatacaa ccagtatata ntgttataat acatcactct 420  
catanaaata ttagcattc 439

<210> 16098  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16098

ggaccttaaa tctcagcttg gccaggtatt catgtttatc tagcctttga gtatgtccat 60  
tttgatttat ggggaccatc tagaggaaaa actcatggtg gaagctcata ctttctcacc 120  
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tttcaaaaat tcagagaatg gcatactctt attggaaatc aacttggtac aaaattaaaa 240  
gttttaagga ctgacaatgg cttggagttt gtttcagagc agttcaatga gttttgcagg 300  
aaaataggca tcaaaaggca caaaacagtc cctcacacac cacaacagaa tggtttagca 360  
gaaaggatga ataagaccat tttgganaaa gtgaagtga tgctactaag tgcaggactg 420  
ccaaatacct tttggggaga a 441

<210> 16099  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16099

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 acctattatg atcagtcaaa cttactatat gtttcttcat taaatcttaa tcaattaatg 180  
 tgatggctaa aaatattggt cgtaaagctg attatccaca tctaggacta ccgacttgct 240  
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<210> 16100  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16100

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 tactctcaat ggaaatacac ttatgagata acctctaata tttttttatc agtgaaaaac 180  
 tctataaaaa aaggtaaaac caaaagacag aaactccaag gaccttataa gtccaatcag 240  
 ctgagcccac tgagcatcaa cagtactcca ttgatcccc tcaataacca aaaaaatatg 300  
 aaatacggca tgtgagaata gggtcagaga ggataacatt agcacagacc atgatatcaa 360  
 agatggttga cagacacgaa atcttggttg caaaacaaga aaaaagattc actacataaa 420  
 taaaagacat aac 433

<210> 16101  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16101

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 tgtttcatat atccttttaa atgatgttga agtgtttaca tgtaattatc cataatatcc 180  
 tgtttatcta ttttttttca tactactttt gtactcaata tagttctata tatatatata 240  
 tataatttac tactatcgat tctttntata agaaacaaat gatacttcaa aacatttcat 300

gcatccatga cagaagatta aaggcataag ctagaccatc caaacaagaa tacaaagtn 360  
 ttgtgcttga tc 372

<210> 16102  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16102

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 ctgtttacat cagtggtcac aacttggtgg tggatgggtgg gttctctgtg gttaatagaa 180  
 gttattcttt cacaccagct taattacatg tagagccaaa aaaacatagt tttgtggctg 240  
 gttggcatta atttccttag ccttcatcaa gttgagaaca tgatgatgtc atgcagtgcg 300  
 tcaaattacc ttgttactgg gacttttttt tcatttgac tctactaata attctgcaat 360  
 gtctcttctt tgtttgcat ttcaaagcat acattcatca accttgtctg cttgtgactc 420  
 aaa 423

<210> 16103  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16103

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 tccgtaggta aatgtatgat agactttgtt ctacggacgt tttttccgctc aactttgagc 180  
 gacatataat gacggctaata tgtctgtcac tataggtttt acctactatg tatagtgtgt 240  
 aggtaaaagt cattaacttc tacttacatc tcctaactgt aggtaaaagt ctttaatatg 300  
 tacatatcat cttcaactgt aggtaaatgt ttagatctta gagaaagctt ataacataca 360  
 taattgaatg tgggcagtc agcaaaccac tacctctctg cttcttctga ctanaaaaga 420  
 attatataaa ctcatg 436

<210> 16104  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16104  
  
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 tgagatgttg atgctcgcac tcctgtaccc actcaagagg ttcaattagt ggagtaggca 180  
 tttaacacct tccttgcttg ggcgacacat cttgtgaaac ctttttcaga acagggtattt 240  
 catttagttt ttttaataat tattaataaa ggatttgtta caaatcaagt tttgagtgtc 300  
 attcgttaa tgtttattaa atgtgttga taaacaggta gttgcgggat tggcgaaacc 360  
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<210> 16105  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16105  
  
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 gtagagcgga acggaagacc ctttgatagc atgtgacgcg aagtcctcaa gtacgaaggt 180  
 gattagcagc ggagtgggtcc ttaaggctgt cgtacctgct ctagtcttcc cggcgtaatg 240  
 ttctccgaag aatcggttca gtctttccct ctgtggctgc tacttcttta cttcttcact 300  
 agtcttgaga ttntagccga gactttgctc aggtctcata gaaaagaaga ttccttcccg 360  
 ctcttctctg aatggagaga atgagttcta ctctttcact ggaagctatc ttactaaaga 420  
 gtggtcctat cttt 434

<210> 16106  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16106

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 agtagagtag tggagccaga aaggaaagaa tgagtagtac cagagagaca tgttacgaaa 180  
 gaaggaatca ccaaccataa agaaatgtaa ctgtcctggg atataggaaa ttcttcacat 240  
 cttctcttat tctctttatg gttacccggt aatgccctat ctaaaagtgg attattgtat 300  
 gatagtctta tccttttctt tccccagctt gaagtaaacc catctctact ctcttctcgg 360  
 agtttcactg tggaactaag gcactctact cactattgag tgggaatccc ggatctctgt 420  
 ctgaaag 427

<210> 16107  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 16107  
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 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aattttatgc 120  
 aaaactggtc atgcatgcac ctatgcggac actcaagtgt caaatTTTTa tggatcatgtg 180  
 atgctagggc tcaggattca tttcctctat tttagatcaa cccaatgttt ccaaaatatg 240  
 ttcttttata aatttgtgca ttcattccgag tccattttgg gtactcggga aaattttcac 300  
 agcattcacc cttcatgtgt gcacacat 328

<210> 16108  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16108  
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 tacgcacacc catctaaaaa ctaaactcac ctccttgaga agctagagct tagctacaca 120  
 cccctataat agctaagctc accccatgac aaaaaggaca tgaaaatacg aaaaatatcc 180  
 tactacaaag actactcgaa atgccctgaa atacaaggct aaacccttat actactagaa 240  
 tggccaaaat acaaggccca aaagaagaaa acaacctatt ctactattta caaagaagag 300



tggaccaaac cttggcccat gggctcaaaa atctaccgta aggttcatga gaaccctaag 360  
gccttcttta tcaactctag cccaatgctc ttggagcctc ttgctcatgg ctctggtaac 420  
tgggcc 426

<210> 16109  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16109  
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gtttttggga caagttgtcc ctttatactt gtcgaagtcc ggtactttga acttcggggg 180  
gataacaaca tcgggtacta agcaaagatc tgtcatgtct gcgaacgaat agtcccaaaa 240  
tccttcacag gctctcaatc tctcctcgag gagattgagc ttactccttt cttcagatgc 300  
tgtgggcgga ccttcogtgg acaaaaactat tggttgtgtc gtgattgtcg caacctaccc 360  
ttcgggtggga gggcgacacg tgac 384

<210> 16110  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 16110  
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cgctaaaccg ctgagagtcg gaagccatct tctcgatgga atatctggct ccagcaggag 120  
tcatgtctac aaaggctaca ccaactggcat catatatcat acttctgtcc atattactga 180  
gtccttcata aaaatattat agaagaagct gctccgaaat ctgatgggtga aggcaactgg 240  
cacatagatg tttaaactct tctcactact catacaggct ctctccactg agttgtctaa 300  
tacctgagat atccttctctg atggctagag tcctagaagc acggaaatat ttttctaaga 360  
atactctctt aaagtcaccc cagctcgtga tggaccatgg a 401

<210> 16111  
<211> 389

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16111

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ctgctctttc ctttctaacc attcttctaa ccgcgcacca ttctactccc ctccctaacc 120  
cccttatggt gtatgtgata atctttatta ttcaggcttc ctggtacca acttattggc 180  
atcctccttg tccctcagct ccatcttctg aaattgtgac caccattgca tctcctccct 240  
cacatgtaac tcccaaattc tgcgccatct ccattgtgc tgaggcttcc tttgtattct 300  
cacttggtg gtggctatct ttttgcaaat ggggctgagt tataatctgc acttcatctg 360  
gtgttattat tcattcctgt tcttctaac 389

<210> 16112  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16112

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gtggaacttt gaagtgtgtc tcataagact ttcattcatg aaagttacaa caagtgttac 120  
agacgttata gcctaggtag cttcttgaga aacatccttg agaatcttcc ttgagaagct 180  
ttcttgagaa acttccttga gaaatttctt tgagaagctt ccttgataag ctagagctta 240  
actacacaca cccctctaata aactaagctc acctccttga gaaactttct tgaaaagctt 300  
ccttgagaag attcctagag aagctagagc ttagctacac acacctctct aataactaag 360  
ctcacctcct tganatgaga agctagagct tagctctttg tatcaagtga ccacagaata 420

<210> 16113  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 16113

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ttgtatctaa acaggcttat aatatgctta aattaatata gataaaatca taaatccatg 120

catatatgat atatccttcc ctttgtacta ttcttctatc tagggtttta ttatcatgga 180  
aagaaagaca tagacttggt agccttgaag gttataatac ttcttgagtt ttttgtagca 240  
tgaactagtt aacatatggt gatgcttctt ttcagataag tgtaggattg gatcagggcc 300  
tcagaatgag tggatatttct tcagccataa ggacaagaaa taccacacag gaaccagaac 360  
aatcgagca actacagctg gttttt 386

<210> 16114  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16114

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gatgtgtggg agtggttagtt atatattatt ggagcttgga ggtttgtttg gtagaccgga 120  
gtggagagtt taacatttaa ctaaggacaa cgaatttcaa tactcatgta atatagtagt 180  
atttgggtgtg ttatcattat ttttcgataa tcggatattt ctttaagcaca ctaggttaggt 240  
tttaagacta aagataccta gcgcacataa aaatgcatgc gagtccttagt gattatgata 300  
tgcttttgat gcacgagatt tgattctttg ttcattatgc atcccttaat caaacacgct 360  
tcctcaacac ctgacataaa gcaactcttg cgttggttt attaaactgc aacatggtac 420

<210> 16115  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16115

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gtagtcatta acagaaccgc gttgcacaag cttgaataga gctcccttgg gatcgtcata 120  
gaatgttgga gcaaaccgag attccaaggc ttgaagaaac ctttgccatg atgttatgaa 180  
gccattgctg aacatccact ggtaccagct gagggcgggc tcgtcaaggt aaagtgaggc 240  
tacgggtgatt ctctcttctt cttacgtgtt ctgatttgaa agagttggtt aattttgaag 300  
atccatccaa gaggatcgag accgtcaaag cgcgggatat cgagcttaac ggagttacgg 360

tggtttctcg agctgtttga ggaaggttgg ttctggtgtg catcacgcat cctgaggtgg 420  
tccaagatcg aatccaccct 440

<210> 16116  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16116

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atgtgtatat gtttgtatat agatgttgtc ttcaactgca ccttgcaaaa gtggcctgaa 180  
acatagccgg ttttgaacct taacaaatga tcattgcaat cctataatgt tgtttgtgaa 240  
ttcactctga ttttcgtatg ttaatggaga acctatgtgt tttagaagaa acttttgttg 300  
attctgaagc actgaggttg gaaaaggcta ttatattgca actaggaaag gttggtgctc 360  
ctgagttatt caatgttta 379

<210> 16117  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 16117

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ctttgacgct ataaaacctt atattaaaaa atggtgctag attcaatccc atgtttttgc 120  
tataatgaca aactctattg atctatactc tgacacccta tcatggagga aatataatga 180  
aagcatgagg gaacgtttat gctatgcatg acacaaatgc actttacaga cacaagagcc 240  
aggaagatcg tgtcttctta ctcaacaagca ttgggcctca tagttcattc acagtcatta 300  
ccatggtgcc ccatgcatgc atttaagaag gtgattggac cttccgattt cccgtgacaa 360  
aatgacaaga caaatgcaag gcatgagtga tgacacagta tggatataca tgcatt 415

<210> 16118  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 16118

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aaaaacgcct tactctttta tctctcagat ttatagcacc tgtgaacttt gactggattg 120

agaatttggc taggtcttgt tggacgagta acgtgtgaca ttgagcctag attataataa 180

atggaaacca agtagcttcc tgtcaaattc aaactcgttg atgaaaaact atggccacat 240

taattaagac tgtttacaag ggcttttgat ttttagaagc tgatagttga agttgttaag 300

agaatctaag ctcgctcaga ttctgcaa at cctgtgacaa aacaacagca cgaggtgacg 360

a 361

<210> 16119

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16119

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atcagaatgg atggatagga taatatcaga aggagccatc ccacttcttg aaccagataa 120

ttgttcaa at ggctgggcta cccctcctgg tgatgcattc atgggttagag gccctgagta 180

ttttacaaca aggggttaagg ttccagctgg tgattatatg ctcaaacctc tcggttttga 240

ttggattaaa agttcagtga aaattgcgga gatattaaag gatccaaata gtcgagttag 300

gaatgccatt gataacgagt ttccagaagg tgataaaccc tttgtgtggg ccttcaatct 360

tcaagtccca accaaggata actatagtgc cattgcatat tttacaacca aagagtcagt 420

tcttg 425

<210> 16120

<211> 370

<212> DNA

<213> Glycine max

<400> 16120

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caagcttgtc caatcccgcac ccagcccgga catagtcgga cagagagaac ctgtgatgta 180

cctaatacagg cgagctcctg gctgacaaca tatatgagga acaaatacct caaagcaagg 240  
aggcttgtgg tggctggcca gcgtgtgaaa cttgattgag atgtgagata tgggcgtctg 300  
gcaatcgact accaggggcg aggtatcgat tacgaggctt aataatgagg acaggaagcc 360  
tagatggtct 370

<210> 16121  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16121

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gaanatttag tgggtgagggt ttgntaaggg ggagttatga aggggggaga ttatggtagt 120  
gaggatataa aaagaataaa agatgaaaga gnaatgaggt tagaggtggg tggttagatg 180  
tgaattttgg taatatgagg aagggggaat atggtaatat aatattaggt tgaaaattga 240  
ggataggagg ttaagatggt ttatggtaat agattaaata ggggtgtaat atattaagag 300  
gtttgaaaat aaagtaagga aatttaagga ggggtgtgta atagattaag aggggtgtgtg 360  
aatgattaaa aagatgaatg ggtagtggt aattgattat aatggatgtg taattgaata 420  
gagaatgtat tattggatat ttgatgtgta gaaggtatga aaatt 465

<210> 16122  
<211> 478  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16122

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acaacgctcg cgaaaagact gagctcacta taaaggcgca atcatttcgt atggagcatt 180  
ttcttgagca agttaccctg gcctggagct caaactacat tggtgagacc caacgagggt 240  
actecgctg agcccacctg tgcgggttga taccagcca actaaccac aatctctatt 300  
ggtaaagcca ctatcttctc ttgagcgtga aatacgccc ccattctcac ctctgattat 360

caattccgat gcaacattgt gatgaaacac cagaccactc tgattcacca aaaggagaaa 420  
cagctgaact tcctactttc ctagtaggag gaaattctga ttcgacatct ggagaact 478

<210> 16123  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16123

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tgagcactag gtagaccacg catacgtttt ctttcaagct tttattttca tagatgaaat 180  
gaatgcgtgg ccacctcatg gactctctaa gacaatacat catttcttgc ctgaattgaa 240  
ggagatggaa gccatttcta atcaaattcc tagcctaacg gggtcatatc accaaagctc 300  
accctggaga taatcatact ctctcatatg ctagtctctca ta 342

<210> 16124  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 16124

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aattgtttga actttgtggt ttttacctg tgattttaga gagggagggg gaaatgattt 180  
ctgttgccac ttttaagaatt tttggcaaga gggttgctga aatacccttt gtggctacca 240  
cgggtgcagtg taaaaagatt gtgtgacatt ttaatgaatg agattgagaa gcagttgact 300  
tacttggaag tacaggagaa tgttctgcct tgaagtttga cagttatgaa aaaggacacc 360  
aacctgaatt tctca 375

<210> 16125  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16125

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gaaatcccaa atccacactc ctcacctgca aaattccaaa actttccaaa tttcaaaaga  180
atcccagata aaaaaaaaaat cactcactca tgctccctac taccaaagca agtgatcaca  240
agagaaaaat ccaaactttg caaaccaaaa acgacaccgt gttatggtag cctaaaaata  300
gagcgacaaa tcaaaaaaca ctttcacttt gcatgcaggg tggcgaanaa ggggaattgaa  360
taacgaaaac gacaatgtca tangtaatgt gcctaaaaaa ctatgaaacg acataagacc  420
caatc                                           425
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<210> 16126  
<211> 352  
<212> DNA  
<213> Glycine max

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<400> 16126
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ctccgcctga gccacactga gcaagatgaa ccagagccaa ctaaccaca atctctagag  180
ggaaatccac tatcttctct tgagcgtgaa agagatcccc catctccacc tctgaatatc  240
atcaccgatg catcatctga tgaagcagct gccctcctg atccaccaa aggagaaaca  300
ggtgaccttc ctacttcctt agtgggaaga atttctgatt cgatcatctgg ag       352
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<210> 16127  
<211> 416  
<212> DNA  
<213> Glycine max

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<223> unsure at all n locations
<400> 16127
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gtcttatatg tcatcaagaa aggaaactct ttccatctt ttttgtgatt gtatggatac  120
taagttgatg tggcaatttt ttattcgagt ataaggttca atacaacatc aattctttca  180
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taaccaattg tgcgaaccta cccttttgcg ggtgtcgcaa catgcccttt tgcgggcgag 240  
cgaaggcgag gctcacgggt gcgctttcca aaggaggaaa gatgcgcgga gtcgccacca 300  
acgtttatatt gtgggaaacg tcggaaaaac cgaaggaaac cggtcgaaat gaaaattcta 360  
agttcgggag ttgtatttac gtttcaagaa ggtattagca cctcttacgt ttgtct 416

<210> 16128  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16128

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aacatattta aaacaaaaac ttaatccgca aatccctctt gtaagactaa gtttcaattc 120  
tgcttcattc aagttctaag gcaacaatac attttccaat gttaaaatca cctaactagg 180  
cacacaaatg gttgatcaga ccaagggcat acaaaattta agctctgaaa gaagcattga 240  
acacaagaaa cacaatcaat tagatattaa aataattaca ttagttgctc attagaaatc 300  
cccaacaagg gtgttttagcc aacaattaca aaagaaaccc taacaataat gagcttacia 360  
agcctaggta tctctacaaa agctactcat ct 392

<210> 16129  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16129

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gattttctta ggggtccactt ggaccccat tctaccaact aaaaacccta agaaaactat 120  
attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt tctaaggac 180  
tgaaagaact tgctgagat gtctaagt atcatctagg atcctactat atactaaatt 240  
atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat gatgcataag 300  
cctcataaag gtgcttggag cattagtggg cccaaaagca tcactagccc ttcatacaaa 360  
ccaaacttgg tcttgaaagc ggntntccac tcatcacct ctttcattcc taattggtga 420

taaccacttt ta

432

<210> 16130  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16130

tgtttttaaa atttaaattc aaatttctaa aagttgctac atatagttta aacttctggt 60  
aatcaattac ataccttggtg taatcgatta caggctttta aattcaaatt caaaattttc 120  
aaattgtttc ataaatcaat ttagccactg gtaaccgatt accagagagg aaatatcata 180  
tttttgagaa gataattggtt cttaaaaaac ttttgtaaaa tatttttcttt agccaaacct 240  
aggtagcatc aattaaggaa ttctttctaa gatcctaact aagtacatcg ttcttcttgc 300  
atttctgaat tcttgacttg aatcgcgctc atctttggca tcatcaaaac ttcatatcat 360  
atatgcttct acaacatcaa atagtgcact t 391

<210> 16131  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16131

taaagggttg tgggctggga tgtaagcca taggatttat gctgatcaaa taaagtcaat 60  
agaacccaaa atcttattta agaacaaca agctctttgc catttagacc agaaggagt 120  
tggtcgttaa gatgtattgt ttaaggaact gctttccatt tcagtaataa tttcatctta 180  
ttttcgcttc aaatcctatt tacaaatatt tgtagttaa taaggaagaa aaaaaatatg 240  
gaaacagaat attcttttaa acatagaaaa gaaacataat ctgaaaagat acatagttaa 300  
attagaaaaa taaaaaataa attgataggt agacagagca aaatgcagcc ttaaaattca 360  
tcataagaga aaacaataaa ctaacttcag ataattntca aatgcctatt aaatttagaa 420  
ttataatata tgcattgcaa g 441

<210> 16132  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16132

atcttggagc atgcttatta catggagtag atgcaaccaa aataaagctt cattcaaatt 60  
taaaattgtg gaggtttgac cgagttatgt tcaattntcc tcatgtcagc tttcatggga 120  
aggaaaataa cacattacta attaagttag ttttcttgta agattcagtt agaagactaa 180  
ttaatgtggc accctctacc ccgacataca tatagtgaag ggaaacatag aatagtggga 240  
gtaacttaaa aagatttact tcacaattca atataaaact tctcaacgga gtaaagggtc 300  
acattcacc attaaccaag ttaaaactta tcggtaagaa tataaaaaca tgtttcggct 360  
ccaaacaaag accataccgg tattataact a 391

<210> 16133  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 16133  
ctcagcttat cctcagatcc ctttgttggc caggctcatt tatacagccc ttctagggtt 60  
agactaactc aaactaagct tcacccatcat atccctctta ttggactaga cttagcttac 120  
atagcttacg aaagttaga ctaatttagc ctaagctttg tcctcagatc cctcttgttg 180  
gactagactt agaccaaaca gcattattgt aacaacatac ttaataccaa aacttaatcc 240  
gtagatccct cttgtgagac taagttgcaa ttctacttca ttcaagatct aaggtaacga 300  
tacatttctc aatgctgaag tcacctaact acgcacacaa atgggttgatc agaccatgaa 360  
catacacaat gtaagcactg aaagaagcat tgaacacaag agacaccttc aattagatat 420  
taaacgtatt acatc 435

<210> 16134  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16134  
tttttaggtt tggcttgcaa acacatcttg aaggagctca acgatctaca agagtatcct 60  
tttacgtcat gcagataagc ttctcaatcc ttttctctat ttttttctc gtcttttttg 120

ttgggttgta tgtaacaaaa actattattc gtgattatat atttatatat ttattgcaat 180  
 gtgttatcta atatatctaa tgtaaaggag tagtatatgg agaaaagatg tagatttgac 240  
 cgctatgata gagagaaaaac aaataaaaaa ctctctctgg tattttttga ttattataaa 300  
 gatttgggac ttgaaaaaaa atctaaacac aaaataacat gtagatttga ttgctttgag 360  
 agagagaata aaataacaaa ctctgtct 388

<210> 16135  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16135

ntntattgac aatttgcata aatatataaa attttttact cgtaatgttt tataaaatga 60  
 tgttttacta attcatgttt acaacaattc attcaaaatt tcaaataaat attaaattaa 120  
 aatgtgctaa atacttagtt ttctaaaatg atgttttgct aatttatgtt tacaacaatc 180  
 catttccctc caaccaaaca cactttaaac aataaacatt agtggtgtgt agcagaaaact 240  
 ttccaataga aaggagaagg atgcaagtaa gtgaatgaaa ttttagggac cagaacatat 300  
 gacatcccc aaatattgaa aagaaaaatg caaaagaaat ccatgattcc atgctcagtg 360  
 gaaaaactta naggaagca tccacactca aaagattcat cggaagacat ttgaaaccct 420  
 tgtaaataaa agc 433

<210> 16136  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16136

ttcttgcttt gtgagttgat tttagtnta gtttcacttt gattattagt caattcattc 60  
 aaggaacctt tcaaagaaaa acatccgatt gatttttttg attattttat tattactttt 120  
 ttttagatat ttgattatt ttattattat ttgtttgaa gatattttga ttattttttt 180  
 attatttttt tgaagatatt ttgattattt tattattatt ttgatttttt ttatttaacc 240  
 gaagttacaa cgtgaacgat cggatggatt ttattttaat agtgattaaa cgagattaca 300

acacaaatga tcttttaaatt tcattttatc aattattagg cgagataacg gcttaattaa 360  
acggtaaaaa gctcgttaaa ag 382

<210> 16137  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 16137

tggacttcct gtgttttggg aacctctcct tcctcaggtg tacccaaacc caatcacctg 60  
gttcaagcat gactttcttt ctgcttttgt tggcttgctt tgcataagctc gcatttttct 120  
tttcaatttg agccttcact tgctcatgca acttcttcac atactcagct ttagcctgtg 180  
catccttatg cttaaacata gcaatgttag gcataggcaa caaatcaaga ggagtcaaag 240  
gattaaatcc atacactatc tcaaatgggtg aacaattagt tgtgctatgg acagcccgat 300  
tataagcaaa ctcaacatga ggcaaacagg cttcccaaga tttaagattt ttctttaaaa 360  
caatcctaag cagtgtgcct aaagtcctat tgactacctc agtttgacca tcaatttgtg 420  
ggtgacaagt agtagaaaac aa 442

<210> 16138  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 16138

gatctatagc ctcagatccc gtcgatgga gacgacttaa accacactgc attattgtga 60  
cgacatatatt aacaacctga cttaatcctg agatgcctct ttagaggactg agcttaaatt 120  
gtgcttcatt caagctctaa ggcaactata cattttccaa tggtaacatc gcctaactcg 180  
ggacactaat gggatgatcga acaagggcct acaaagatta agctctgaag gaagcattgg 240  
acacaagaaa cacagacgac tagatattaa aa 272

<210> 16139  
<211> 75  
<212> DNA  
<213> Glycine max

<400> 16139

ccggaagag aactgcatta cacctgagaa gaaatgttct gtcatgggtca ctcgacatg 60  
catcttcaaa aggcc 75

<210> 16140  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16140

ttcttgtctt aaacactaca ttctttgtcc tactaagcca ttgttggctc taaacaaatc 60  
aataagattt gttggaagat tatgcactga ctaaataatgt gatcgtctta tagacaaata 120  
tatcacttaa cacttttagt cttttctttc aaggatataca aggtgttttt gagagcttag 180  
taactataca agaattttta aaaaacttta taagaaagaa tgaaagaata aggtcacaca 240  
gatgattcgg gtattgtttc ttcanagctt cttttatata tagccttcac ctccaagtac 300  
ctgttggtgc atgtaatgct tgcattaaat gcacatctga tcgcaaccgg caagtgtacc 360  
ggatcgaca agtagt 376

<210> 16141  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<400> 16141

tgcagatttg gccttcgcca gtgaaaggat caatgtgggt ccgaaaagag gcaaatttga 60  
tcatcctact aggacgactg aaaaaactgg ggcaaataaa gaggggtgagg atgaaggaga 120  
aaccatgct gtgattgcca ttctgtacg gccaaagttc ccaccaaacc caacaatgtc 180  
attactcagt caataacaaa cttctcctt acccaccacc cagttatcca caaaggccat 240  
ccctaaatca accacaaagc ctgtctatcg cacttccaat gacgaacacc accttttagca 300  
caaacaaaa acaccaacca agaagtgaat tgtgcagcga gaaagcctgt agaattcacc 360  
ccaattccag tatcctatgc tgacttgctc ccatacttac ttgataattc aat 413

<210> 16142  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16142

cggtagctcg gngaactctc tataagtcga ctctgcattg catgcaagtc ttcataaact 60  
ttatacaacg aatgacagct ctgatatac tatgttacac acagtggcct cagatatcga 120  
taagaagggg ggggtgaatt aagatatcaa agactttcct caattaaatt ttttaattctc 180  
ctttttaaaa ttttcaatgt acctttatta tgaattacta aaaagacaat tcaaaataaa 240  
cttctttaat gcaaaagaaa aataacaata actaaaagaa gtttaaggga aaagaaagt 300  
caaactcagt ttatactggg tcggccacac tctgtgccta tgtccagccc ccaagcaacc 360  
cgcttgagat ttccactatc ttgtaaaatt cctttttaca tgtctgaacc aaggacaacc 420  
cttcctttgt gttca 435

<210> 16143  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 16143  
tgcctaatta acctgaaatt gagagagaat gattattaaa cacacagaat gaaaatacta 60  
aggatttatt acctatactt aacagaaaat acttataacc ttacaaaata gccataaatt 120  
aagagagttt gatacagttg atacgagttt tatacacaaa agttagtcac tttcaccgac 180  
taacaactcc cccaaattta cagttttgct tgtcctgaag caaaaagaga acaactcact 240  
tgtgtcaag tgacaatgac atgcgggtgat tatgtacgaa ggtgtatgct acaaagtgc 300  
tgattgcatg ataagagaat ggagtataat gccctcatca cttgtcattc acaaggtatg 360  
cagttatcca aagagaagaa taaaatgtga cctgaacaga tagatgaggt taggcatatg 420  
acaga 425

<210> 16144  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 16144  
ttcttggtga taattagctg cgacaacttt gtaaggtatt gcatactttg tcgtaggagc 60

ccacgtgcgg tgcttttggc gggtgacgca aacctcatct catgaataat tctactagta 120  
 atttcgatat gtcgcagtat tcaaagagat acgttattct tttatacaa tgcaatattg 180  
 aatattagtg tttagtagca ctatgtttta ttcttttttag acaatgcaat gtgaagtga 240  
 attgtgattg aatattagtg tttagtagca ctacgtttta acacgttaca ttgtcacgtg 300  
 tgttctagta agagatgtta tcttaagatt ataatgaagc aagatttttc gtcgctaact 360  
 tttactttat ctacatgcat 380

<210> 16145  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 16145

ccaactgac ataccctct ttcttttgta cagtgttaac tctttaactg cacctttggc 60  
 gtatgtagac gatatagctc taatatgaca tgacattatg gctatcaaac gtactaccat 120  
 attactggac caaaccgaca agatgaaaga tcatggcgct tataaaatta ttccttcgca 180  
 tcgaggacgc ttgttcccaa caaagcatcc atctatgtca taagaaactt tgcctagata 240  
 tgctctctga ttcaggaatg cctgcatgac gccacagcatg cacacccatg gattggacta 300  
 ctgctcc 307

<210> 16146  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 16146

ttcttcttat ccaaggcaca ttcttggtgg tgaagcttct tcttgcattg cttattccct 60  
 agtggatgac gctcctctc acctcttctc ctttatcttc cactgcatct ccatgggtga 120  
 aaatcaccat tgaaggacct cattgaagct caaagatcca gctccatag aagccccaca 180  
 agcaagcttc cattataagg gggcacatta cttctcaatg cccaccaag aaaaccatga 240  
 ttatgagggg ccaagacatt gatagtagcc aagatgaggg tactactata ccctcctcta 300  
 gtggaagtga agaagccaat gggacagaat ctagggaaga tatctacc 348

<210> 16147



<211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16147

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tgatcaaaac aattatctat tcattcaaat ccaactcaaat catacaattt cttattcaaa   60
tcattctcaa acacacattt catacaaaac aatccactgc atatcatttt caaccaattc  120
actgttcaaa caagcttttt gtacaagcaa acaactcaaa gtactaaaat ttaaagaact  180
gaaacataaa aactgaaatt taaatgattg aacataaatc atataataac taaaaataaa  240
ctaaaatggt caaaatgcac aaatttaaag gtccctgctcc tgtgcatgct cattgagatc  300
caacacctga gcagttgggt aatcgtgaga gataggctgc tctaactcag atgtggatgc  360
agatgggatg acatcatcag gtgtgggtgc tggggatcgc tctgggatct agtttgtgga  420
agtct                                           425
  
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<210> 16148  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16148

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ttcttgccctt ggttttagaca tgattgatac atgatttggg acttgtagga ttcaatttgg   60
gcaaaattgg atgagggaaa gtgtgatttc gaaaatctgc actttatgca gaattttgct  120
gtcaaatagg tgcagcagaa ttttggtttt gtgcagaaag tgttggtgtat ttgctggctg  180
tggaagaggt agtacagatt tggttctgga cgttttctag cagatcccaa cggtcataat  240
gtagatttat gtgctagaga ctccagtaa aattttcgag tcaatccaac ggttaacgaa  300
ttggaacgaa gagaatatta ctgggggtatt tgagtgtgaa aagctgtgat gttg       354
  
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<210> 16149  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16149

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ntgaggattt ggtctttgcc agtgaaagga tcattgtggg tctgaaaaaa ggcaaattta   60
gtcatcctgc ttggacgaat gagaaaactg gggcaaatga agagggtgag aaagagggag  120
  
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aaacccatgc tgtgactgat attcctatac ggccaagttt cccaccaacc caaaaatgtc 180  
attactcagc caataacaaa cctccttacc caccacccag ttatccacaa aggccatccc 240  
taaatacaacc acaaagcctg tctaccgcac ttccaatgac gaagaccacc ttttagcacia 300  
acaaaaaaaa acaccaacca agaaatgaat tntgcagcga aaagcctgta ggattcaccc 360  
cacattccag tgtcatatgc taactcgctc ccatatctac 400

<210> 16150  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16150

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aataaaagcg ttctgcatga catattttgg gatttaaaat attgcttgtg aacaaatttt 120  
gttgcatttt ccttatattt tgttctcaag caataattat ttgtgtaacc aagttgttga 180  
tatgatttag gtttaattac tcatttagtt tttatagttt ccaaactttt atatgttaat 240  
ccctatagat aataagtgc tttttcagtc tttgtagttt accattccga taagttctta 300  
ccgttaaaat tgtttaacat cgtaaatta ttgttgccgg tcattctttc ccagagctcc 360  
ctctcttccg agag 374

<210> 16151  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16151

tgagagggtg gattntaggg taatgttcct aattatacat tgagcatttt gtttataatc 60  
tccatccttc tttttaatgt tggaacaata gcattttag acatacctga tttgtccttt 120  
tgaatatcaa gaattcagat atttaacttg agtatttata tttagttgaa tagctgagct 180  
ttcagtttgt atatgaatat tcatggttac ataactttct atcgattatc aaattctaata 240  
ttaaaaaattg ctctctatca ggcctttcat gccctcacat tgaagtgaat ttntctcctt 300  
ttatcagtc attgcactta ctgatggaag ttctctgtga tctgtctccc aatattctca 360

aactgtggat acctgttaac catgtgcagg tagcatcaag tgtttttctg ga 412

<210> 16152  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 16152

atcttatctt tatctctacc aacaaaaaaaa aaaaaccag agtaaattggg aaaaaatctg 60  
 attaatacaga ctttctaaca ttagatatca atattaatat tatatatagt taaataatac 120  
 aaatataatg tttaaattaac gtatattggt taacatatatt taaaataaac aaattcattc 180  
 taaacataat acataattgc ttaagagaat attaacgcta aatcatgtta ggacaatcca 240  
 aaccacaacg tgaacaatgt taaaaaatgt atcatgttca tttctaatat tcaaacctat 300  
 gcaaattaac taagttggat tgaatcaagg tgtgcttgaa ttattggtgg gaaaatacaa 360  
 aaacatatatt gagaataaaa tca 383

<210> 16153  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 16153

aagcttttgg catggttttg ttcatatata tttctcctaa tattgtgatt atattatttt 60  
 aaatattaag ctactaccga ttgcaaacat cctgaggact aaagtgccga aatgtatggt 120  
 ggacagcagg cactactttg agttgttccc atgtgcctaa cttcaacata taacctctgt 180  
 cttgctttct ttatgctgct gttaatgtca aattgtttta atttaaattgt gcaagctgct 240  
 taagcagtac taagttagtc gatgctgtca tgtaaaaata tctaacgggc ttttactcat 300  
 ttaacttgaa agtatagcag aatttgagct ttgcattagt ggacatgcgg gatttaaaca 360  
 gcagattgac gacatatattg tggaaatatg ttagataata atctatttga ttcttggcac 420  
 tttcagtctt a 431

<210> 16154  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16154

agctttctata tattgttcgt tcctaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcctg actttttctaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa actacatagt gccaccctca actacccac ctatgataaa 300  
gagctttatg ccttaataag agccctccaa acttggaac attaccttgt ttccaaggaa 360  
ttgtcattc atagtgatca tcaatcactt a 391

<210> 16155

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16155

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ttccgctgca tctccatggg ggaatatccc cattgaagta cctcattgaa gctcaaagat 120  
ccagtctcca taaaatcttc tcaagcaagc ttccatcaag tggtaatcag agcataagag 180  
cttcaagtag gtgctcctta aacctccatt aacctccatt gttgtttctt catttttctc 240  
catgtatttc ctacatgtc ttgtgttgaa tggttttaac atgattcttt agaattttca 300  
ccgggttaaac ttgttataaa agttagattt gatttctat ggttcaaatt tcttgttctt 360  
gttcttgaac catgaattgt gttaactnta gggttccttg agttctgtct tgctattttt 420  
ttgtggctga aact 434

<210> 16156

<211> 344

<212> DNA

<213> Glycine max

<400> 16156

atcttgggtc tgggttatag caccacacct gacgtcccca aggtctactg acccccgcga 60  
catatctcca ggtaccactc tgtgtgcaac agataaaagc atgaagttac acccttgaac 120

actgactcat ctcaagcttg taggattatg gggtagccat cacatgtggt actatgtggc 180  
ggccgggcca tgggtgcacaa caagttttac acatccacag tgcgcgcata aaccaccat 240  
cctctgttgc ccacctccaa cagagctcac gtactcccac gtagcctgat atcctcgctt 300  
ctctcaacac cgggaccgca tcaatccttc caagcttgca caac 344

<210> 16157  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16157

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gttcgaagac aaccttcttt ctcccttga tggcttgttt agcatagctt ttacttttcc 120  
tctcaatttg atctttgact ctataatgaa gcttcttcac atagtccgcc tttgcttgac 180  
cttctttatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagt 240  
gattaaaacc ataaacaact tcaagggtta agaaagaaga atcatcggat gacgccgatc 300  
gaacatttcc taatagacat catccaaata ttattcaggg attgaataga agatacaata 360  
gccgacatcg gccgttgtaa atcagcgact gatatttttc agccgacgtt ggcgaatttc 420  
ttttacaaac gt 432

<210> 16158  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16158  
agcttccttc tacacctgaa aaagaggatg agataggtgc acaaaagaga aagcttccta 60  
acaaaattat tcatgtaggt ggacctctt cttgtaattc tgacttacag aagccttcta 120  
tgctcttgc attccacct agagtaattc caaacaaaag gatggaagaa gtggaaaaag 180  
agatcttggg gacctttaag agagtagagg tgaccatata tctgctagat gccatcaagc 240  
agattccaag atatgccaag tttttaaagg agttgtgcac ccacaaaaga gagctcaaag 300  
gagatgaaag gattagcatg ggcagaaatg tgtcagcatt gataggtaaa tatgttcctc 360  
acattcctaa gaaatgtaag gacccatg 388

<210> 16159  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 16159

gcttgaaagc agagctcaca aagacaagag tggatgaatga gaagttggaa actacaatca 60  
 ctagggtcag gaaagattgt gatgagctga aagacatcaa catgaccaca gtcaaagcat 120  
 tagagcgaga aacaaaaaga gccagacggg aagaatgagg taggaacaag tttcgagggg 180  
 ctttgtgggg tagcaataac aagctcaaac ttagaagggc cgagagggac aaattgttcg 240  
 ccctcactca cggatcactt cttactcttt tcttttcttt tcaaaacacg aaaatgggggt 300  
 tgtgtgtgtt accggttaagc agaccagatc gtcaagtatt ttaaattaaa atggagtgat 360  
 ccgagtattg aacacaggga acttgtggat tagacacaag tttgttcagg aatcaggcat 420  
 tgtgtaaaca aacattgata ct 442

<210> 16160  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16160

ttcttattca ttcaatccaa taatagattc tttctgactc gagtagaaat tcatcataaa 60  
 aaaaggaaac cataaaaaat accaagcaaa gcataattga gaaacaatga cactaaacaa 120  
 gtgtgaacgg agtttgcttt tgtctagaga ggcagcaacc ctgagcttct ttgaggaaca 180  
 acatagatat acacaaacaa tgtcaaaatt ccaaccacac aggccaaagt gataatagca 240  
 acagtgaatg agatgatgat caaagccaga aatgaagcag cacctccaac aataagcatg 300  
 gcacaagtta tcaaaggaag aagatttatg ttatgtttct gaagtattgt ttcaatgatc 360  
 accaagaagg agtatacgac aatgctc 387

<210> 16161  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16161

cttgaatctt tcgggtgaac tcgaaggggg ttcaatgtcc attgtcaaatt atttgcttaa 60  
acaagacaac cccagaagca atttaacaag acagcactat taagacagtt tttttgtcac 120  
aatgatgaga aagtcacaag gaacaaacaa ccccttcctc ttcaacaacc aagcacaaat 180  
ttgatgactt tttgcagtat attaccatca taccctccct aatattcgta aaccaaataca 240  
tccaccaagt gacgtgtttg atttagttta ttgagaaata taataatgca ttgcccactg 300  
catctgcatg aatcaattga cgcttaagtt gtttaagggtt aacaagaaat atcgttttga 360  
tttctgggta tataaaaata caaataaatg aaagaaaatt nttattgggc tataataatt 420  
ttatctgcc acaaaattgt ctct 444

<210> 16162

<211> 379

<212> DNA

<213> Glycine max

<400> 16162

atcttgttta tgacccttac ctttaccttg atgatcatca attaccctat tggcttatta 60  
gtatacatat agttaaatag ctccctgaaa ctccctgggg taagatttat cgaatgcctc 120  
catttgaatt ttatactcct ttgtctttcg actatcctag cattttatta accttgcttc 180  
tttgttttgg ttttagctct ttctaagaag atcccttaag atgctgtaat attaggtaag 240  
gaatgaaata acacgaaaca cactaacagg ggggaggagg gtttaatagc gtatatatca 300  
aagatataaa cttttgcaat ataaaagtga atatagataa caatatatta aaaatagggc 360  
atccactgaa gataaagtt 379

<210> 16163

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16163

ttccagaggc aagctaattt gtacgccctc ccgatggagc atttacattc attatcttct 60  
ttgtggactt tttctaagtg tggaattgaa atcctcaatc ccttaccgat tggcatcctc 120  
cagctgaagt attaattgtg gcaattgact aattcaacaa atggggttgaa gccgagctgg 180

tagccaggat caccattgaa caagtacata aatTTTTatg gcaatcaata atgtgcctat 240  
 ttgggatgct aaaaaccttg atagtagaca atggcacaca gttcaattgc aatagtgtta 300  
 aagaatttgt gacagccaca atgtaaagtt gatttttgc tCGgtggaac accctcaatc 360  
 aaatggtaag gtagagggtg ccattaaggt gatactaaag ggtnttaaT caaacTttca 420  
 acat 424

<210> 16164  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 16164  
 ttctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg 60  
 atataacgag acgctcgaaa ttgaatgttg aagctctgag cgaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgaggcccgT aatatatcga gacgctcgaa attgaatgtt 180  
 gaagctctga gccaatTcaa acgacaataa ctttttactc ggatgtctga ttgactctcg 240  
 tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgaggccc gtaatatatc gagacgctcg aaattgaat 359

<210> 16165  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16165  
 taaacattca acttcgagcg tctcgatata ttactagtct caatcaaaca tccgagaaaa 60  
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagc gtctcgatat 120  
 atgacaggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tatcacggga ctatatcaaa catccgagta 240  
 aaaagttatt ggcgtttgaa ttggctcaga gcttaaacat tcaatttcga gcgtctcgat 300  
 atattacgag actcaatcac acatccgaga aaaaagttat tgtcatttgt aattgctcag 360  
 aggttcaaca ttcaatttcg agcgtctcga tatattacag gactcaatca ga 412



<210> 16166  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16166

atztatgcat tcttgtcctt aattcaaata atatagtagc caagttggaa taaaatcatt 60  
 ttatccaagc aaagacacat tatgtgatat gccataagca atgtgtgcat tatgtaaagt 120  
 ctctccgctt gcaggggcaa ggttgcatac atctacactc cccaaacccc actaggtgaa 180  
 agcctcatgc atgggggtctc atttatgtac agccttaaac cagaaggggt gaaagtttat 240  
 tttcaaaaaa agacagatag aaccactcac taaaagtaaa caatatatgc tatagaccaa 300  
 tacacaaaca aaagcacagc ttactcaata acaaaaacat tcatattaga tatgatagac 360  
 tctaatttcc tttaaaatgt cgcgtgat 388

<210> 16167  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16167

tgtaaaatac aatcaggagc tatctcatgc tctttaaaac caaaactcat cttcaaagct 60  
 tgctttgcc a tttcatccac aacctgttg gcttctctga ccacatgatt ccaaacctca 120  
 ttttcatatt gccctgaaaa tctgtgaatc tcttcgacaa gttgatgctg aggatgaccc 180  
 aaatcacatc tcccatcaag aagggtttata gcctccctag aatccgaatc cacacgaata 240  
 agtcgaaaag ccgaccatgc aaacttaaga ccaagtaaaa tggctcgaag ctcagcataa 300  
 agaaactgc ctctccact tttggcctga aaactgcaaa gcaaggaacc agcanaatcg 360  
 cggattagcc ctccatagcc cgcaagactg ccaaattgag caacagatgc atcacaattc 420

<210> 16168  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16168

atcttgtctg tccgatgcag tagtaatgat ggcccagatt atgttgggga acggttacga 60

acccggaatg ggttttaggga aagacaacgg cggcatgact aacctgataa atgccatagg 120  
 aaatcgtggg aagtatggtt taggctataa acccactcag gcggatataa agagaagcat 180  
 cgtgggaaga aagagcgggtg gtcaaagctc gcgggttgagg caagaaagtg aaggaagccc 240  
 gccctgccac ataagtagaa gctttataag cgcgggtctg ggagactaag gtcaagtgat 300  
 cgcgatatac gaagatgatg ttccgagtac attgtatttg gtacgaccat gcccttctga 360  
 ttaccagctg ggaaac 376

<210> 16169  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 16169

tgcttgtgga gctttgatgg aagctggatc tttgatcttc aatgaggtcc tttaatggtg 60  
 attttccacc atggagatgc agcgaaagac aaaggagaaa aggtgaaagg aggtgccatc 120  
 cactaggtaa taagccatgg aagaagggtgc ttcaccacca tgatgagcct tggaaaagaa 180  
 gcttgggaagg atgcttcaat ggagaaaaag aaagagggag agaaagtgag atgggggagc 240  
 acgaaattga aggaataaaa gagggagaga agtggaactt tgaagtatgt ctacaagac 300  
 tctcattcat caaagttaca ataaatgtta cacatgcttc tatttataga ctaggtagct 360  
 tccttgagaa gctttatata gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420  
 gg 422

<210> 16170  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16170

tttcatgcat tcttggcaca atagatcaca ttaagacttg tcagcttagt agattctttg 60  
 atgtgtgttg ggagagacac aaagttgttc catgatactt ttaagtcttt caagttagga 120  
 aaattgtaaa taataacgtg aacatctttt tcgaatagat ccatagtttg gaaatgtaat 180  
 atctctagtt ttgggcaagc tgaatgatag tttccttcca atcttctaaa tgactctcga 240  
 agtccatgac atcctacgat ttttaatgtg acaaaatttg gcaacactaa caagctacta 300

ggcaaagtgtt cgagtcctcaa acaaaccatcc atgtcaagat agttgatata ctgttaagct 360  
aagtgcaggg aaattagagg agtatatgg 389

<210> 16171  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 16171

tatattataa aaataaattg ttaacttata atgattatta ttatgatata acatgtacac 60  
atactattat gattaagtcg gtaattaag ttataatttg cactctgcct ttatctcaaa 120  
ggagtcaact caaggtttct ttattatcca tttagaatga aacacatata agttatactc 180  
gtgagcatgc taggtatcca cttttaaatg aaaaaaagt atagaggtag attatcaatt 240  
acttttttta aattatattg aataacttaa ttatttttta tagtataata acttaccata 300  
aacaatatt aaagaagtat ccgtgtctat tctatagtct cttcttagaa aaccataatg 360  
gttggtctctt tattggaaat aataagtcac gatagaaaat cacataaaag cccatttcct 420  
cttttc 426

<210> 16172  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 16172

tcattcttga gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt gttgaccaca 60  
gagtggatcc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120  
ctattgccca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cggtcagtga 180  
gaacctgtga tgtacctaa caggcgagct cctggcagtc aacagataaa aggaaaacaa 240  
gaccacaaag caaggaggct tgtggtggct ggccagctgt gaattttgtg taatatgtgg 300  
attgtggcct ctggtaatcg attaccaagg gtgggtaatc gattacaagg cttaaaaatg 360  
aagacagg 368

<210> 16173  
<211> 418  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16173

tggagaagat gcttcattgg aggaaattta gatggagaga aagagagagg ggggagcacg 60  
aaattgaagg aataaaagag gtatagaagt ggaactttga agtatgtctc acaagactct 120  
cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc 180  
ttgagaagct ttcttgagaa agcttctttg agaaaacttc cttgagaagc tagagcttag 240  
ctacacacac ccctctcata actaagctca cctccttgag aagcttcctt aagaagattc 300  
ctaaagaagc tagagcttag ctacacatac ctctctaata gctaagctca cctccttgag 360  
atgagaagct agagcttagc tacacacccn ctataatagc taagctcacc cncatgac 418

<210> 16174

<211> 373

<212> DNA

<213> Glycine max

<400> 16174

ttcttatcct tatggcctgc ctccggactt cccccccgt gccaccccg aagatttaag 60  
ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagatga 120  
tggggaagga gatacccatc ttggccccct gctccacctc aaagatctgt cccacatga 180  
actaccccaa ccgaacatag tccgccatac cccggcctca cccacacctt taaaagaatc 240  
tgttcccttc gcggaagata agggaaagat tgaggcgctc gaagagaggt taagagcagt 300  
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaatat 360  
cgtcattcct ccc 373

<210> 16175

<211> 414

<212> DNA

<213> Glycine max

<400> 16175

tcatgactaa atctaataca gaaaataact tatgaatcac tggaaatatg tctaattcaa 60  
gattgagaga aagtcgtgac gattatgtcc ttcaatctgc aaccactttt gacaaacaaa 120  
ctgttgtaat tttaatgttt atttcaaaag aatttttttt agacttagtt aaagaatatt 180

ataaattatt tataactctc aatttccttg tctcagggtt tctttatatt ggtttaatgt 240  
tcatttgact tattcaaatt cttgcttaat ggtttaacgt taaaatgatg gtcagggtgca 300  
atttgatgac taacataatt tgttttcaaa cattggagat ttttttaact aacaatattt 360  
gctttgacca tttaaaacaa ttaattgaat gtgaaagcaa cttaagtgac ttgt 414

<210> 16176  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 16176

agcttgcaag aggattggta gaggggctct catctaaggc ctttatgtct tagatctcaa 60  
ggacactctt gattgtaaat ttacttttcc tggtatcaat tcccatccaa attccattcc 120  
ttgtaaaaat gctcatattt ggcattctag atttggtcac atctcagaca aag 173

<210> 16177  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16177

agctttcaac tgagtagatg acaatactag acgggtggtt tacaaactat tattctaaca 60  
tcttcatttn tgaaagattc tatattttga ctaacacaat attcaacccc ttccagtgtg 120  
attcatgtta tttcatataa tagtcgttga ttaaatttga acaaatttaa tattgatgaa 180  
gagttaaatt acttgcataa atgtcactta ttataaattt gtgtctatat aataataata 240  
ataataataa taataataat aataataata ataataataa ttaatttttta ttattattat 300  
tattattatt atagcaacgt ttaagaatga gcatgcctat atatatacat atanttttaa 360  
aaataataaa taaaatatag aacaatt 387

<210> 16178  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16178

tagaagatct atatatggac taaaacaagc atcctaccaa tgggtatattt agtttcatag 60  
 tgtggtctcc aaatatggat tttgtggaaa gtgttgtaga ccaatgcata taccttaaag 120  
 tcaataggag taagttgatt ttcttagttc tatatgaaga tgacatttta cttgctagga 180  
 gtgacttagg tcttttgcac gacactaaat ttttcctctc acaaaacttt gatatgaagg 240  
 atatgggtga agcttcctat gtcattggca tagaaattca tagagataga tctctaataa 300  
 cattaggact atctcaaaag gctacatag aaaagttttg aaaaaattta atatgcaaaa 360  
 ttgttcatca attaccgcac ctatagttaa agggaaaant tttagtatca atcaatgtcc 420  
 ccaaacaaca ttggaa 436

<210> 16179  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16179

agcttctttt tttttcataa gttaacatta atttcttgaa acagttaaaa agaaatacca 60  
 taaaattaat tagtaaaatg ggctttgtaa gtacgagttt tataacatct gataaaacaa 120  
 tgtggtaaat cacgagtcga acaacttggt tcttcatggt tgtctttcat tgtgaccctt 180  
 tccattgctt tgatattcta caagtttcta ccttagatag tataggagta agcaaatatt 240  
 atattattta tctaccagtg tgaataagat ctatgttcat gtaaagcaa cattntattt 300  
 atttctttgt tcatatacat gctccaccag accagagttc tttcacatca ttatatgctt 360  
 taccaacact tttgtttatc accaaaa 387

<210> 16180  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16180

nttggcacia agaagaagaa gaagttcaaa gagattcaag gcttgtaaag gattgtaatg 60  
 aattgattgg attgatagaa agattgatta aaaatgcaaa acaaagcctt gcttttatag 120  
 actcttcatg tctggtcaag aggaccattt agaagagtta taacttttag aaaaaactta 180

aaaccaatTT gaaaaagtca aaaaccatTT gatgagttac atcttttgat ttattcagaa 240  
acaatcactg gtaatcgatt accaaatcag tgtaatcgat tacacaaagc ttttatgtga 300  
aagtatgtga ctcttctctt ttgaatttga atttcaacgt ttaaaggtag tggtaatcga 360  
ttacaaaaac attgtaatcg attacaactt tntgaaatca attggaacgt tgtaaattca 420  
gttgaaaaa 429

<210> 16181  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 16181

atattactag caactctaag atgagcgaat agacatctta cataactaaga aggtaatgta 60  
taaatacaatc ctcaccggaa tgactgagta aaaaccatTT ggtattggat ctgaaagcat 120  
tccaatctgc cagagtgcga gtgatgctgt cagagaagac agcacatctt cgacaacatg 180  
tcgaggagat tacttattac ttaagggtctc atcttgagaa cccaaagaaa cagatccaaa 240  
tttttcaaca aaatctgaag gccaccacaa cacattagat ggcccttgct ctgccggccc 300  
tgcattctct cgtgtctcct ccattgttctt atatatttag aatgaaaaac catttcg 357

<210> 16182  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 16182

tcaagcttct gacaaaatcc atcaacacat gcggactcca atttgtggct tactattatg 60  
ttcctcaatt ttgcatgatt tgcctcact tctctgccaa cttcattctc atcatccatc 120  
acaattttca cagctttgct tacactctcc ttctgtgaacc agccatcttc ttcacccttc 180  
tcacttcaa cccaatctt taagttttca cccatcatcc ttgcattaac tatatgatca 240  
ccatctacct gtggcagtaa cactatttgg cacttattca ctagtgctc agttaatgaa 300  
ccagcaccac aatgtgttat gaagcaacc actgaagggt gttccaaaat cagctgttgc 360  
tgtatccatc caccgaggac aattactctc tcttcaacc tttccttgaa cccttctggg 420  
agagcagctt caagtgtctc aaacc 445

<210> 16183  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16183

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ttcttgagaa tggagaattg cactaagcaa tcactacgca tagctccaaa ctggaaggtg   60
gaggacacat gaacgaaaac acaattcatg gggctccgaa aaaggggttg agaatggaga  120
attacactaa gcaatcacta cgcatagctc caaactcgaa ggtggaggac acatgaacga  180
taacgcaatt catggggctc cgaaaagatt gagaatggag aattgcacta cgcaatcact  240
acgcatagct ccaaacgcga aggtggagga cacatgaatg aaaacgcaat tcatggtgct  300
ccgaaaagaa tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaactcg  360
aaggtggagg acacatgaa                                     379
  
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<210> 16184  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 16184

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ttgtaggatt atgggggtacc catcacatgt ggtactatgt ggcggtcggg cgatgttgca   60
caacaagttt tccacatcca caatgcgcgc ataaaccac catcccctgt tgctacctc  120
caactgagct cacgtactcc cacgtagccg atatcctcgt ttctatcaac accgggtccc  180
catcaatcct cccaagcttt cccaacatca aagtaatata acattcaaac ggcacaaact  240
atcacagcca agaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaaatca  300
cagcttttct cacttaaaga cccagtaac aattgcttcg ttccaattcg ttaaccgctg  360
gatcgactcc aaatttttac tggaagtctc tagtacataa gcctacattg tgaccgctgg  420
gatctactag cagacatcca                                     440
  
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<210> 16185  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 16185

ttctatgaag aaatgagcta caaacctaca cgctcacatt caattctttt ttttataaag 60

ctgaacttag gagatttgag aaattctatt cagatcggga agtttagatg atagaagaag 120

aagagaggat tcacgccaaag ggtagtnta ttgcaattaa taagattgca atgaaggttc 180

ataagctctc tgaacccaga agtataaagc tctgtataaa agagacgaaa aactaactac 240

ttaactgaaa ataggtacaa cagaaaagaa aaatacaaat tttgtagaa cataacctat 300

gttaatcaac caccctaaact agatgctccc ttttacgaga ctgaactctc caccaaatta 360

ctagagattg gacgac 376

<210> 16186

<211> 331

<212> DNA

<213> Glycine max

<400> 16186

ggaggagcgc cagattgact gagtaacaac tgatacaggt ggaactctga agagtatctc 60

ataagacttt cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta 120

ggcagcttcc ttgagaagct ttcttaagaa aacttccttg agaagctttc ttaagaaaac 180

ttccttgaga agtttctttg agaaaacttc cttgagaagc tagagtttat ctacacacac 240

ccatctaaaa actaagctca cctccttgag aagcttcctt gagaagctag agcttatcta 300

cacacacca tctataaact aagctcacct c 331

<210> 16187

<211> 213

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16187

atcttctagc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60

tttccctttc cttgttttga atctcactac aagccttaag tgaaaaacca tgatatcacc 120

atataccttaa ggaattttgg agcttttgaa ttgttttggg aataagtgtg ggggggggtt 180

tagnttaanc ttctttaact tactttaatg gag 213

<210> 16188  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16188

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ntaaaagatt ggctaagatt ttgttaaaac atattctctt agacaatgaa ggaaagctgg 60
agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg cacaatgcac 120
aaggcaagat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtcggatata 180
atgtccagga catcctgcct gaaaatactg gaattgctaa aagcattgaa gctgcaggat 240
ccacgatgtc ggatacaatg tccaggacat cctgccccgaa aatactggag ttgctaaaag 300
cattgaagtt gcaggatcca cgatgtcggg tacgatgtcc aggacatctt gcccganaat 360
actggacata taaatctggt atatctttaa cagattattg tgcagttagc aagagattag 420
atga 424
```

<210> 16189  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16189

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atcttgaaga ggatgcttta atggaggaaa agaaagagag aaggggggag cacgaaattg 60
aaggaataaa agaggggaaag aagtggaact ttgaagtgtg tctcataaga ctttcattca 120
tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaga 180
agctttctta agaaaacttc cttgagaagc tagagttag ctacacacac ccatctaaaa 240
actaagctca cctccttgag aagcttcctt gagaagctag agcttagcta cacacacca 300
tctaaaaact aagctcacct ccgtgagaag ctttcttgag aagctagagc ttagctacac 360
acccctataa tagctaagct c 381
```

<210> 16190  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16190

tgtccataat agtcaatgat attttttagg atgtttcttt cattgtcatc tgccctgcaa 60  
aatataaaac aatcataaaa aattaaaagg tgcattgaggg tagaaacca tatacatacc 120  
ttgattccat gagtgtcaga tctcctctca tgatatttta ttaatgaaga aagtccttat 180  
gtacagatga tgagtatgta ggacgacagc gagttactct gcctaagtcc tcaccctata 240  
acttattgta gacaaaagtc accacaaatt ataaatctct tattctcctt ttgactcatt 300  
gtgaaaatat attgaaattc aaagattgaa aaagcaactt taaatttaaa tggctaaaaa 360  
aataatccaa attttaaaaa agaactaaga aagaaaaaaa aactatctnt atattcctt 419

<210> 16191  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 16191  
ttcttgtttt tgggcaatag caccacacct gacgtcccca aggtctcctg acccccgcca 60  
catatctcca ggtaccactc tgtgggtcaac gaataaaagt aggaggtctc acccttcccc 120  
acttcctcac ttcaagcttg taggattatg ggtaccctgt cacatgtggt actaggtggc 180  
ggttggggcga tgggtgcaagt tgactatcca catccaaaaa tcacacataa atccaccatc 240  
cccagttgcc caccttcaac tgagctcacg tactcccact tagcccttat cctcgttctt 300  
ctcaacaccg ggtcccatc aatccctcca agcttccaca acatcgcaag caattcaaca 360  
tccaaacatc atgaactatc a 381

<210> 16192  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 16192  
actaagctcg cacaggggct gaacaatata ttattgacat gttggctttt catacaggcc 60  
gacaaattga ttgggcacac ttagtccgat attgcatgca taaagcattg cgattaaatg 120  
ctccattgcc atatccacac ttaggcactc tcttccttca acactttaac atccctcttg 180  
attctgaacc ttttgtacca atcaagagat cettgttaat tgggtccgct gtgatcgcat 240  
cattagggta ccgtaaagag catgaaggct ctcggggcga aaaaggtgca caccctattg 300

atgaagaagg acacttactc agtggagaag attcctctgt tcttcatagg attatggaca 360  
 ggtacgatgg tcttcatacc tttgatggtg aaaggatcga tgctctggag ttactaatgg 420  
 acatg 425

<210> 16193  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 16193

ttcttgggca gtccctcatt ttataagtca gttttgtgag gttgagttaa gccctatgcc 60  
 caaagtctaa gatttggtta tatttaaatga tattaatcta tatgtgttca tattgttttg 120  
 catgttctgg agcagtgcc aggcaaagct tgtatatgct tgtgagtga atccccatgc 180  
 tgtagaagca ctccaacata atctacaaac aaattttgtg gctgatcggt gcatacact 240  
 tgaagtagat aatctaata cagcttccaa ggtatagcga gtgtatttaa ctatgtattc 300  
 acccagcacc gtagaccgag ctctaccgta tcttgccgac atctccatgt t 351

<210> 16194  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16194

ntccttcgag tccctgcatg tttagccctg atcttgggtca taggattgga cgaattgatc 60  
 tgggtcccacc tttaagttta gatgggtcaat tagggaaagc aattgcatcg cctccaatgt 120  
 ctcttcgagg acttagacag ctctctttgc ccgtcaaatac attgcatgag aaattgcaga 180  
 attcaccgca agtgggtggt atacatttgg ctcttcaaaa taactcagat ggcttaattg 240  
 ttaggtatct gctactatgc tactatgttt catgaactcc tattcattgt caatagttat 300  
 ttttgcccggt gtggatggaa gcctgatgct attgtccttt tatttagttg gcacaatgat 360  
 gtatttgttg tggtgaacc tggagagctc gctgagaaat ttctacaaaa tgtntaaatt 420  
 cag 423

<210> 16195

<211> 378  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 16195  
  
 ttcttgcttg tggggcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60  
 ggtgatttta caccatggag atgcagcgga agacaaagga gaagagggtga gagtaggcgt 120  
 catccactag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaggag 240  
 ggagcatgaa attgaaggaa gaaaaaggga gataagttga actttgagtt gtgtctcaca 300  
 agactctcat tcatcanagt tacaacaagt gttacacatg cttctattta taaactaggt 360  
 agcttcctta agaagcat 378

<210> 16196  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16196  
  
 tctacttatg tggcagggcg ggcttccttc actttctttt ctccaacgcg agctttgacc 60  
 actgttcttc cttcgcgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgtcttt 180  
 gcctaaacct atccccgggt cacaaccgtt cccaacata actcggggcca tcattaccgt 240  
 tgcacgagac agacaaggct gcccaaagag ggagtccacg gaggaaatgt tgaccacctc 300  
 aaaagactgg aaagcatttt ctaacgatcc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatgt cttcctcgcc tgacacgatg accaagtgcc cctc 414

<210> 16197  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <400> 16197  
  
 tttctttttt caggttattg tgtaaaaatc agtttgcca atgggatgat gattttcaag 60  
 tggcatttga aaagattaaa tgatgtttga tgaatcctcc tatgctcatg ccattggtgc 120

ccggaagacc tcttatccta tacatgacag tattagatga gtcaatgggg tgtgtgctcg 180  
gacaacacga tgaatctgga aaaagggaaat gggccatcta ctacttgagc aagaagttca 240  
cggcattgtag atgaactaat tgttcctaga gaggacatgt tgtgccttgg cgtgggcagc 300  
tcaccgtttg aggtagtata tgctgagtta cactacttgg ttggtgtcca taatgtatcc 360  
cgtcgagtac atcttcg 377

<210> 16198  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16198

tgctgcaaca gcatgtaact cttnttaaaa taatttctcc aagaacagtg gaaatagtaa 60  
accaagtga aatgaacagt accaaagaag aacaccatct tttgcaattt caaagagctc 120  
attggttgaa gggatcaatag gaagatattt cttgaggaac tcattcttgtag ctagatagtg 180  
atttatatgt gctacatatg atgctttctc tgattcactt attgtgtgaa gcaatgtggt 240  
tgtagctgcc ttgaggaacg ctgacgagtt ctttgacta cttccgggtc tagaattcac 300  
aaatggttgg agtttcaagt agacctgtca tcattatatt atatcactat tacaagttat 360  
ccttgatca aaatttaacc tgatcacaat agctgaaatt gttctagtag gtttctagt 419

<210> 16199  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16199

agctttttgt aaactttgta ggatatggac atccactga gaagcactag gaagtacctt 60  
ttcaaaaaaa cagacttggt gagattaagg gagctagcat ctttagtaag tgatccagtt 120  
gattttcaag ctaccacgg gaagttgctc agaattctta gagtagatat tgaggagggg 180  
tgcttagaga cctagttca gttctatgac ccgctctacc attgcttcac atttcccgat 240  
taccagcttg tccccacact tgaagagtac tcctacctag ttggcttacc tgtgccagac 300  
aagatacctt tccatgggta tgagcctacc cctaaaccct ccgacatcgc agccgctctc 360

catcttataa cctccatca

379

<210> 16200  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 16200

tggatatttg aattacggat cttctatagt gaaatattga agtattaatt cagtgtatgg 60  
atgctcattc tgattactac gaattcgttc tcagggccga aaagggttgtt gaggaagtag 120  
ccatcattga attgaagacg ccaaagcaaa gtttgacacc aaacgagtcc caaccccctt 180  
caacttctag tcaagaccaa aagtgaagacc ccaattttat ttcccttttt tgtttctctt 240  
aaccgcgtgt catactcata ccggtactgt cattgcaa at agattacact tatttttgac 300  
acaataatcg tgactcattt ttttgtcaca ataattggta tgaccaatat tttattggat 360  
tcgcaactct atatctgttt gattaattat ttttaatttg caatagggtt gtgttgtatc 420  
a 421

<210> 16201  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 16201

agcttgtctc atcgtttatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60  
caagaagagt taggtctagc caccggccac gagcatagaa tcgcggaaga gtatgctcaa 120  
gtatacgagg aaaaagaggg tagaggaaag gtgatcgact ctttacacca agaggcaacc 180  
atgtggatgg atcggcttgc tcttaccttg aacgggagtc aagagcttcc ccgcttggtta 240  
gccaaggcca aggcgatggc agacacctac tccgaccccg aagagattca tgggcttctc 300  
ggctattgac agcatatgat agactttatg gccgccataa ttagaaatcg 350

<210> 16202  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16202

agcttgngtg ttgcttatat atcctagctt taaccctaca cctaccacca actgccatat 60  
 caagcaaaga aaggaatatt agatatatga tgcccatatc ttcttcaacc agccacatta 120  
 cacaattgca actacaaccg acaaccattc tatatcacat gtccaccta ctttctatct 180  
 tcaataacct ccgtaatatc atgcaaacat gccccaaag atgtgattgt attaagcatg 240  
 caatataacg gtgcataaca gaataccttt cttttagccc ttttaaccat ttccatgcat 300  
 gtatttttagc attctcaaag aagaatgaat tctacttatg ttgcacgtac aatcatttaa 360  
 tcaaattcaa ctactcaca agacctact 389

<210> 16203  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16203  
 attatgaata accaagagac cagtcaaatt atgataaaag gataatacat atgtccagat 60  
 taagagatat gatagatcac cagcttatca cgaaccacaa agcattgccg ctgaattgat 120  
 aatatgtaag cctcatggac ttcgatgact tcatccaaat actttgctgc agtcatacct 180  
 tgacatagat gacgccatgc gctgtgatat acatgcatac aaagtgtacc atcagataag 240  
 aacgcttagg tttccttctc acattgcaga actgaaggaa gcttgctgaa ccacgagcgt 300  
 atactaatgg gaagattgca ttgtgtgact agtgatcatc atataaggaa ttaaagggtca 360  
 ttataagcca ttacaactag atctagccat tatactatta cattagctcg ccttagtatt 420  
 atttgt 426

<210> 16204  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 16204  
 agcttgtgca tcaactcatg tatacatatt tctattcgta gattattaga aatccattat 60  
 atggttttgc atcagagtga ataaaacgta ttggaaattt cgttctatga aaataattat 120  
 atgtagcgca tttttctatt cgttgattat tatctattat caaatgttt tattaatat 180  
 taaattgata agtttaagga ttttttttaa aataaatatt aattagatta taaatgagtt 240



aaacaagtca agatcaaact ttcatttttt ttttcaacaa gttaagtcca atcttttagt 300  
tagactcttt aaataaatga gtcaagctaa agttattatt tgtttttcac aagtcaaact 360  
taaaatctaa tattcaacct gactc 385

<210> 16205  
<211> 442  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16205

tactctnttc ctgtaatgcc tcattgtatt catattaaca ctaagttttg actacctaaa 60  
aagagtatca catttatgac tcatttagtt catcaaatta taacacaaat aataacataa 120  
agttgaagac aaaataaaaa tatttacata gtttaatctt cttoctatta ttattattaa 180  
aaatattatt attgctctca ttattattgt caatattaag gatatcctta ttattatggg 240  
catctttcat tattaatggg aaaaaaatca tttataagtt aaatgatatc atagtaatat 300  
aagttaaaac aaaataaaaa aaagcattat gacttataga acttaccttt tctccaataa 360  
aattggttcc attaaatgct gaaaggagta aaaaacacaa aacaaaacga tcttcaacta 420  
ggtgcattaa taaacaaaat at 442

<210> 16206  
<211> 387  
<212> DNA  
<213> Glycine max  
  
<400> 16206

agcttcgact ttttgatca ttcttttcaa attagagatt gttctttcttc ctccaatcaa 60  
gcaaaataga atgtgtttcc gtttacttgc tggtcgacgg gcatcattca cggctagcca 120  
agcagcttca aaatctgtac aagttccaaa gggctatctt gcagtgtatg ttggggagaa 180  
acattcccga acaccaagag aacattcccg atcctagtga gaaagcatag ctagaggtag 240  
tcttcatgtc atctgccgaa cctgcccaat cattatcggt gtagccaagt aattttgaag 300  
tggttttggg agtataccat ataccgaact cttttgtcct ttgagatacc tcaaaattct 360  
ttttgctgct ccaaagagta tttgact 387

<210> 16207  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 16207

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ctttgaactt caaatgcttt aggatgtgaa tcacttctgt tgtcctaaat gcctgcattc 60
atgaacatat atagaagaaa taattggaga ggaatcggtg gctacatgaa tctactgaggt 120
gggaggacta taagacaaga ctggttggat gggaccaaca gggaggcaag ggcatatgga 180
cggccttgga ggactttctc gctgatgctg attccgtgtg aaataaaata gatgtcaaac 240
atcagaaata tttaaaatga tatatgacct ctcgctatcc gctgccttat aattcatcag 300
ccacaaatta ccttgcagtt gtacttcgat gtaacgtgaa cagaacatgt ccagagcatg 360
tttacaaaaa tatggaatat caattaatgc atgaatagac gttacgtttc actgaggcac 420
gtctcatttg gttacatgtg gag 443
```

<210> 16208  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16208

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tgcttcatga tgaatcaaca atgattcaaa ggtattttga tgatagcaat gatgacaaca 60
aaagatgatg acaaaagtga tgaacaaaaa gctcaagaga atcaaagaac attcatctca 120
agaaaatcta gaacaagtca aagagttcaa gaatcaagaa gaattcaaga actcaagaag 180
aaagcctaca aacaagaatc aagattcaag atctcaagaa tcaagatcaa gattcaagac 240
ttaacagatt caaaatctca agatcaagat tcaagactca agattcaaga atgaagaaaa 300
gactcaatca agataagtat taaaaagttt ttcaaaaactt tgaatagcac atgagttntt 360
gacaaaacct ttaccaaaga gttt 384
```

<210> 16209  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16209

tattaatttg aactcgtgct tgtacataag ttcttttaaat tttattttga aagccgtagt 60  
gcttatTTTT ccaccagat actgcagatg ctgcagaatt tctgccttaa ataagttgca 120  
gtgcttattt ttctaaaagc tacagtgcctt gtacataagt tcaattaatt tgaatctact 180  
ctgcaaatgc tgcagaattt ctgccttaac caaattagga gataccatca atcagcatcc 240  
ccctcaaggc atttctcctc ctgctatagt taataatttt gtgaaagtag gaggtattac 300  
tgtccccctc tttgatccat ttgcttcttg acttctgcct cacaatagat tcatgaagag 360  
tatccttttc ccaaacttca acttcaaatt tcttcagatc ttggac 406

<210> 16210  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16210

tattttttta tgcagaacgg ctgcgccata atttcaaaga atttattgat caatatgggtg 60  
aaagtgattt tccaattaaa gaaatggttg agaagctaata gacaaacaca gtcaaagatg 120  
aagagtgtat gttaccaggg attcatcctc cagaacggga acaacctttg agttctatat 180  
ttgatgaagc ggaactttct tcttcggtaa ctaacacatt ccactttttt atttaggtaa 240  
aattagttat ttcttctaata ttatttttta aattcaaata gatcttttaa tttttatgag 300  
atataatttg atactctaata tctgtaaaat gattcaattt gatcttacag ncaaataata 360  
gattaacggt attaataaat 380

<210> 16211  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16211

tcaagaatta gccttatgat tttcgctga acattatctt attttcaagc gaaaaagaat 60  
ccttaataag aatgggtcaac cggctgagtc ggtcagggtta gaaccaaag tccaaattga 120  
cctaaccgc atgttgactc ttggagacct aaaccgtcc aaatggactt tcaattcaag 180  
ttaagtgagt ttcaagttag aagggtacag gtaaccagt acaattatag gtcttgaaaa 240

tcattgttac ccccaacttg caaataacct caaatacaaaa gcagaattgc gaatctatga 300  
 taacaatcat tgcagcacta atacattatc ttcattatac agtgatacaa ctaatacccc 360  
 tataacctga gtaaccattt ttgccattat c 391

<210> 16212  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16212

tattttctac tgcaagctga gggctctatta aagctaccag tagcctcact gttatcctct 60  
 gtgctacaac aggatataat ccttttatac tacttaggat caaactaatc ttgactatag 120  
 cattcataaa tgtataataa tacatttgat gaaagcatta agaaaatcta tataacattg 180  
 ttgtaactat attagcgacg catttggaat taaaatgcga gattggaagg tgaggctttg 240  
 cacttacagg acttctactg ctgctgttac agctgcactc caattctgtt cacgctgcag 300  
 tggtagagga tttaaaagag gataaactat aacgcgctaa ttctaaaacc ctttattatg 360  
 ttctatt 367

<210> 16213  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16213

aggcaccagt agatnnccgt tagcaanntc ganagccatc agacanaacac gcnaccctac 60  
 tcatatctct ggcgtgccgc gacgcattcg tactatacac taagttttta ttacctaana 120  
 ggagtatcac atttacgact catttaatcc atcgcaccat gacacataga ataccataaa 180  
 gctgaagact atacaatata gtccacttag cttcttgctg tacctaatat gcacatgaaa 240  
 catcaaaata taggtctcat atttactgcc aataaaaatcg atatctcat gattaaggcc 300  
 atgtctcatt atcaatgggt aaactactag ttataagtcc aacgatttca tagttatata 360  
 agctcactca taatataatg aacgcattat gacttataaa actcaccata tgttcataat 420  
 attagcttca ttaatgctca cagagcgag cacacataac tcaatgattg tactaagcg 480  
 ttatcacaaa ccatat 496

<210> 16214  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16214

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ccccgtctctc gcactctctc antcntatta tattgatatg gagaanaagc gaaccgaggc 60
aagatnnana tancnnnaca cncaagcaca cagacacngc ntttgangcc attgagttca 120
tagcatngca nancgcnгаа gngactcgga acccgagat cctgatagag aagactccag 180
gcgggccttc ctttacttgc gtgaaccatt aaatcacggc agaaactata taacaacagc 240
cgagctcaag acgacggaac aaaagaacaa tcatagatca aaattaatac tacataagaa 300
cgaggctgaa gattataatc aatacaatat aagagaaatg cacaaaaagc atggaatgag 360
aaaaataact ggggacaggg gaagagaaaa atagatatct cttagatatc aaaagacagg 420
aaccggacaa gaaccacgaa aacatatact atagcgaagt gaaaagaccg aatacctgtg 480
agccgtggga caaatgtaca aactggcagg aaccgtagat ttgacaacag ccaatttata 540
tatacattat atgcctacaa aaccc 565

```

<210> 16215  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 16215

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actaagagtt gactatttat gaagagtatc acatttagga ctcathtagt tcatcatatt 60
agaacacaca taatgacata acgtagaaga caaaataaaa atattgacat agggtaatct 120
tcttcttatt attattatta aaaagattat gattgctctc attattattg tcaatattaa 180
ggatatcctg attattatgg gcatctttca ttattaatgc gaaaagaatc attgataggt 240
taaagatgat catagtagta taagttacca caaaataaaa aaaagcatta tgactgatag 300
aacttacctt ttctccaata aaattggctc cattaaatgc tgaaaggagt tagaagcaca 360
tagcaacacg atcttcaact aggcgcatta ataaacaaaa 400

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<210> 16216

<211> 378  
 <212> DNA  
 <213> Glycine max

<400> 16216

ttcttttaggt tgctcattga ctccagattg ctgcaaagaa ggacatagat ctgtatgggtg 60  
 atctgcagaa gatcataaac cacagactct tgcaacaggt gcagatgtag atttttgatt 120  
 catggcaagc tgagttacta tgttgaccaa gacatcaagt tttccttcaa gctttttatt 180  
 tttagtagat gaagatgaat ctgtggccac ctcatggact cctctaagga caatagcatc 240  
 atttcttgca ctgaattggt gggagttgga agccatcttc tcaatcaaat tcgtagccgc 300  
 agcaggagtc atatcactaa gagctccacc actggcagca tcaatcatac tcctctctat 360  
 gttgctaagt ccctcata 378

<210> 16217  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 16217

tatgctacaa atatttacia tagacctcct caatctcagc tgcaaatca accacagcaa 60  
 agcaattatg acctttccag caacagatac aaccctggat ggaggaatca tcctaacctc 120  
 agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgttgct 180  
 ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacia 240  
 ccaacagttg aggcccctcc acaaccttcc ctggaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360  
 ggacaattag ctaccaatt gaatcaacia caatcccaaa attctgacia gctgccttct 420  
 caagctgt 428

<210> 16218  
 <211> 122  
 <212> DNA  
 <213> Glycine max

<400> 16218

gatgtgttgc catattgatg gatggtagag cccacgcgt aatttactgt atatgcaatc 60

ttacccttac attgtacctg gctagcatgc gtgcaatagt tattatcaaa ccattgtatg 120  
ta 122

<210> 16219  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 16219

tgtaatcaat acttcttgaa tggacagtat ctgttatggt tatgatcaag gcaaaaccac 60  
tagtacaaat ttaaaagggg gcaccataat gtttcacaga atctatatatt gatattcagc 120  
atttcatcat gaatttgata tcaaaagatg tcatggagag tgacagatga aaacactgaa 180  
aatagagaat caggccccc at gagcaacaaa gaaaaactca aggtgtaaaa taagaaactt 240  
gaggagctac atcagacaat gaacaaaata acaagaggtg cagatttgaa agatagtggg 300  
tggcctggct aaaaaatttt aaatgataaa agtatattta gatcaagatt attcaaataa 360  
ctgacaatag tataggtaag agtaccagaa taacagtaat ttcataccta tgacc 415

<210> 16220  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16220

tttctttggc taaattagtc taaactttcg taagctattt aagctgagtc tagtccaaca 60  
agagggatct aaggatgaaa cttagtttta gttagtctaa acctaggaag gctgtctaaa 120  
ttaagcctat tccaacaaga gggatctgaa gacgaagctt ggattgattc agtctaacta 180  
gggatcgagg tttagtaatt taggctacaa catagaacac aaaagcatga ttgattagag 240  
aaacatcttt atatacatca gctgggtttgt tagaaagacc caacaccttt acgtactgct 300  
gtcaatctta cttacttgca ttnttactat ttttagccta gacttagttt aattctattc 360  
taaatacatca attat 375

<210> 16221  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16221

tcgaggcggtt gactcaagtt attttctctg atatttgtga atgatttgaa ccaaagaggg 60  
 aagatctgat ctgagtagat gacatcatgg gtcaacaaga tgagagagaa aatgaaccaa 120  
 atatggggga aaggaaacta aataacgagc cattaacctg gaaactgatg aggcagtggc 180  
 tcatcaagca cgatttggat agacccaaat ttgccatgat gcgtcgttat gtttgaaga 240  
 ggattgcaca tcaagtacga gtcagataga ccaaagttga tcatgatgca ttgccacgtg 300  
 tgatggaggc cggcgatgca tgcaaaacca tgtatgccc agaatagcat gtgaaagtgc 360  
 atcttaactn tgatggtcct gagaatttgt ggactaataa attgacatat acagcagttt 420  
 t 421

<210> 16222  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16222

gagtgggtcn cttttgatcc tttgaattgc cctgaacatc gacnaccgga aaancagact 60  
 cagctggaac aatatcatag gggacattgt cctcttgagg ggaactagca aagcactctc 120  
 accaaatcaa aaggcggcac cataaagtgg cgcagggtacg agtgttgaga atttcatga 180  
 ctacatgtgt gcggaaccac tatgatgccc tgagtgagtg atatatgaca actctgggaa 240  
 cagagaatca ggctcgatga gccacaaaga gaatcttcaa gagtatagag tgaaacgttg 300  
 tgagctacat cagacactga gcgagatcac acgaggtgca gattggagag atattgtttg 360  
 gccagactaa aggcgttgca gtaatataag cctatataga tctagattaa tcttaaactg 420  
 gcgactatct tgtcaaagta ccaacaaaac aggacctggt gcctatgacc tgcg 474

<210> 16223  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 16223

agtcttgat attggctaaa catgatacat gtcattggcta ggtttgattc acggataaaa 60



agcatgcccc acaatatttc catgacacta atgcatatat gatgattcgg aaacttcatg 120  
 caaaacttgt catgcatgca tctatgcgga cactcatatg actaattatt atggatcatgt 180  
 gatgctaggg ctcaggattc atttcctcta tttttaatca acccaatgtt tccaaaatat 240  
 gtacttttat caacttgtgc attcatccga gtccatatcg ggcgtccggt atatttcaca 300  
 gcattcacc cttcaggcgta gacacattt 329

<210> 16224  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 16224

tctacctctc tgggcaatct tatgtggtgg atcttacctt caaaaccttt tgaccttcta 60  
 ccattacctg caagcaaaca ttgtgttctg gagtaagctt gtcttcaca gacaagtcga 120  
 aatcgatttt tgggtcttca aaacctaact ccacctttct cttcccatg acaactatgc 180  
 agcttgcgga caacatgaac ggccttcca agattacaag gatgtcagta tcttcagaga 240  
 tatccataac cacaaagtct gctgggaaga tcaaatgttg taccctgacc aacacttcaa 300  
 tcaactcaca ggacctggtg atggagcggg cagctaattg cacagtcatt cgagtgggca 360  
 taatctcaa ctctcccagc cttctgcaca tggagagtgg catcaaatta atgttggctc 420  
 ccagatcaat catagcc 437

<210> 16225  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16225

atcttctcct tcaattttct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60  
 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tatttccgtg aagaaaatcc 120  
 aagctgaggc gcttctgtaa cgtttccgtg agtaattacg cgaagattct cgaccgttct 180  
 tcaagattca ccgttcgttc ttogtttttc tttagtcttc aatgggtaag tacctcaaac 240  
 caagcttttc aattcattct atgtaccgtt ggtgggtccac attntgtttc gtgtatttct 300

attctcattt tcatttactt tctatacccc cttttgacgt gcttaagcca tttatttaag 360  
 tcatttctcg cttaatctaa aaataa 386

<210> 16226  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16226

tgtaggatta tggngtaccc atcacatgtg gtacttgggtg ggggtcggtc gatggtgcac 60  
 aacaagtttt ccacatccac aaagcgcgca taaaccaccc atgcccctgt gagcccacct 120  
 acaactgagc tcacgtactc ccacgtagcc catatgctcg ctctctctcaa caccgggtcc 180  
 ccatcaatgc tacgaagctt ccacaacatc caagtaaaac aacattcaaa cagcacaagc 240  
 tatcacagac gagcaaaaca gagcaaagtc agaaaactct gctcatacac caaccaacat 300  
 cacagctttt ctacttaaa gacccagta acaattcctt cgatccaatt cgtaaccgt 360  
 tggatcgact ccaaaattnt actggaagtt tatagtacat aagcctacat tgagaccgtt 420  
 gggatctact agcaaact 438

<210> 16227  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16227

atctgcactt tattttataa atctatttat gtacaaagtg aagtaaccaa ataactaact 60  
 aactaactaa cttcactaat atatccagta actactcaga aggaaaggat ggacttaatc 120  
 gattaagccc atctaactta cctaattaaa ctaattacac acagcaaaac ccaaattcgc 180  
 agcccaatta ttgaagtgtg gtgattctta gtttcaagcc caatttgacc cgcgaaatgg 240  
 tagaatgtcc aagcttattt gcgaaagata atacaaaatt gaatctattn ctctgagtct 300  
 ttcaagaact actcacatg 319

<210> 16228  
 <211> 435  
 <212> DNA

<213> Glycine max

<400> 16228

tgctaaccaca tggaagctgc taatatctcc cacacttttt tgggggtgggt cattcttgga 60  
tgaccttgat tttctcaggg tccacttgga ccccatctct accaactaca aaacctaaga 120  
agactatatt atctacacaa aaggtacact tctgtatatt tgcataagagg gagtttttac 180  
taaggactga aagaacttgc cggagatgtc ctaagtgatc atctaggctc ctactgtaca 240  
ctaaaatatc atcaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 300  
gcataagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360  
catacaaacc aaacttggtc ttataagcgg ttttccactc atcacccttg ttcacctga 420  
tttggtgata accac 435

<210> 16229

<211> 347

<212> DNA

<213> Glycine max

<400> 16229

ttcttattat taagtcttat aagcctcata ggtcgggtctg tatatatatt tatattattt 60  
tttgataacc aatatatact tctattattt ttttgataca attaattttt tttaaaacta 120  
acagactttg attacacatt actgctccat aactttcatt cttataatca agtaagactt 180  
taattacaat ttaggtgtga gtcatatgtg ctcccttata tttctcatta tctttattgg 240  
ctttcctatt actatgtttc ctttttcttt aactttctta ttacgttact acttcacagc 300  
aaaggaatat taaagattta atgtgaagaa ggtttttaaa aggacta 347

<210> 16230

<211> 440

<212> DNA

<213> Glycine max

<400> 16230

tgtaaaggat tgattagaaa agtgttcaag atttgaatg attgattttt aatgcaaaac 60  
aaagccttgc ttttatagac tcttcatgtc tgggtcaagaa ggccattcag aagagttata 120  
acttttagaa aaacttaaaa accatttgaa aaagtcaaaa cccttttgaa gagttacatc 180

tttagatttt tcagaaacaa aactggtaa tcgattacca aatatgtgta atcgattaca 240  
 caaagctttt gagtgaacaa atgtgactct tcacttttaa attttgattt caacgttcaa 300  
 ggacactggt aatcgattac aacaaaaaca ttgtaatcga ttacagcctt ttgaaaatat 360  
 ttggaacggt gttaaattcag ttgaaaaaca ttttcaaact cattttgcta ctggtaatcg 420  
 attacaacaa tatggtaatc 440

<210> 16231  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16231

ttcttaacaa agtcaatgaa agaacaacaa catatcatgt gcttcattgt tatggttatc 60  
 ttaatcatcg tttcaatatt ttaaaaaaat tatatataaa cataagatta aatacttttt 120  
 tatttttttag atttaatttt attttctaaa tattcaaaaa atactttgat ttgttttcat 180  
 atttttatta aataatttat catatggcat tatcaagtta atgttccaag ttagtcttac 240  
 aattatatgt atttcattgt ttataaaatt ttaaaacata aataataata gatatcgata 300  
 ctaaataaat aaaattattt tataaaatat attatatatt tcaatcatat taatcatagt 360  
 tgtcatcaat atatgtatac a 381

<210> 16232  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16232

taccctaaca aataacaact ottattgcac cacatgacct ttgcaactcc caacacagaa 60  
 tcacatccac accccaccag ataccctac ccccaaagtc tgcttctacg agtattcagt 120  
 aattatttga ttacacgtgt gcagaactct ttgttgccaa actttattat ttggaacatt 180  
 ttttaggaaca tcacatatga ttgaacatgc agaaagagaa tttttaagat tctagagttt 240  
 agtcatgttg aatgaaatt gaatattgag attttaacaa catccaaaaa tgtggaatnt 300  
 tttctttata atactaatgg tctagtggta aattatcttt tattattata ttctttatat 360  
 taaaagtagg actatcataa ttctagtaat ataaaaattt gatact 406

<210> 16233  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16233

gtctttcgaa tcggctatca gatcaatcat tggtcgggac tgaatcacat ttaaagggtct 60  
 ttatccctcc ttaaaaatat attctgtgaa aatcaaactc acatatagag aatatgtgcg 120  
 tgcgtgtgtg tgtgcatata tatatatata tatatatata tatatatata tatatagata 180  
 tataacttcat atgcatagac gtttctttcg tggcgggacat agagtcgccc aaacacacat 240  
 gtgcctgatg atcaacatta ttgagaggag agatagacca actaggatat ctctgcagat 300  
 tgaaaccggt tatcacgacc ggatcggggg tcttttgaga gcgagtcacg agcattgtaa 360  
 agacgaatta gtaag 375

<210> 16234  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16234

tgcttgaaga catgcaacga atgtaattat acatgtatat ttcattgtgct tttgtgctac 60  
 gagcaacact ctgcctcaag acattttcaa ccttattaca aaagggtgctt ttgcacataa 120  
 tattgtaaaa attgaaacca gttattgtaa ggattaatag aataaaaatg catcatcgtg 180  
 atagccataa ccaaatagaca aattctaaaa ggtgatgagc ttcacttctc aaaaaaacta 240  
 acataacttt caggcattat agtcgccatt tggcagacat aaaataaatt aagtaaggaa 300  
 atcataaagc agcctcgaca ttaataaata ggaaatatac attanataat gatatgttac 360  
 ctctgttgata gcaagcac 378

<210> 16235  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16235

ttctttagg attatgggggt acccgatcatg tgtggtacta ggtggcgatc gggcgatggg 60  
gcaaatcaac tctcccatat ccacaaatca aacatgaacc caccatcccc agttgcccac 120  
cttcaactga gctcacgtac cccacgtag cccttctctc cgttctctc agcaccgggt 180  
ccccatcaac ccctccaagc ttccacaata tccaagcaat tcaatattca aacatcatga 240  
actaccctaa accaagaaaa cagggcagag gcagaaaact ctgccccaaa cacattccaa 300  
taccacaact ttccctactc aaatacccca gtaacattct cttcggtccg attcgctaac 360  
cgttggatcg actcgc 376

<210> 16236  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16236

tgtagaatgg ctagacatga tacatgtcag ggcttggttt gtttcaaggg taaaaaggga 60  
tgccccacat tatttccatg acacaaatgc aaaaatgatg atttggaac tttatgcaaa 120  
actggatcatg catgcatcta tgcggacact caaatgtcaa atttttatgg tcatgtgatg 180  
ctagggccca ggattcattt cctctatttt atatcaacc aatgtttcca aaatatgttc 240  
ttttatccat ttgtgcattc atccaagtcc atttcggggc tccgggaaaa tttcacagca 300  
ttcacccttc aggtttacac acattntttc aaaaattggg tatgatcaat gaattttttt 360  
tttttttttt caaaagcatg ttggcttttc agctagacaa cttatttttc ttttttctc 419

<210> 16237  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16237

ttcttttatt ctctcccca aaggttgacc cataattggg acaactttac tatggtgtat 60  
gctcgatgct gtattactaa aagacaagcc cccacatctc acatgttgtc caagagtagg 120  
ggtgttcaaa ttaacttggt ataaaaaaaa ttaaccatag atgtatataa ccaatttcat 180  
aataattgga taattaaaaa tatttataag tgtaactaa tttattgggt aagttaaagt 240

tggggttattt aattttttgga tatgcctgga tgtatatattg ataaccggct atgataaaaag 300  
 agatatttga taacagataa taatgcttan aacttaatac actatgtcgc ttctttctctt 360  
 tggatatgcat aacatggt 378

<210> 16238  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 16238

ttcttccact tcatgtttct tgtggtgtct ttcttcatgc tacagcttct gcccaaaatt 60  
 cttttggtag cttcttgctt ttgagcatgc ttgagccat atcaaggatt gttctatttt 120  
 tcctttctgt cacaccattc tattaggggg atcttggaaac tattaaggga catctgattc 180  
 cattctcttc acagaactct ttggaaggga attctcctcc ttggttagta ctcatggctt 240  
 tgatcttttg actactttct ttctctatta tagctttgaa cttcttgaag gcggaaaaga 300  
 ctttggattc tttctttaat acatatactc atgttttgct tgagaactaa ccaactgaaaa 360  
 ggatgacata ggcactttta tctagtgagc atggcttgat tggcccacag acgtcaacat 420  
 gtat 424

<210> 16239  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 16239

tttcttgaac atcatttggt gatttgattc acttgtctct taacaccact tgacaccaat 60  
 cataaacaaa gggagttttg tttgcaccat aaacactatt aaaaaatact gggaactgga 120  
 ctgctaataa tacagtagaa aaatctgcta tactgcaaat tttgttaaatt tcttgaaaaa 180  
 aaaacaatac tcaaatttac cccaccaca ttaacaataa ctgatacaag atgtagaatt 240  
 tcatatgtta cagaccatat ggactgttga ccataatgag ctttatcata ctatagcatt 300  
 taacagaact tgaccagatg ctgaggtacc acactactca tatgatgcta attcac 356

<210> 16240  
 <211> 424  
 <212> DNA

<213> Glycine max

<400> 16240

tagcacgcat ggtgtttatg ttggtggaaa taattttggt tctggccttt ctgtcatctt 60  
caggggccac accatcaggg agagacacca actttatgtg tgagtccatg atgactttgt 120  
cattcccacc accacttgca ctcttcagtt tttcgtagtt ctcatctgaa ctcaagaggg 180  
tgattttgca gccatatttg gccaaaacct gtgagaactg aagaaggggg ttcatgtgcc 240  
ctaggattgg gtaaggcatt gcaagaaaat gtgagatacc catcataacg gggtgagttg 300  
gaatcttgca agtgaagcaa aatttactgg tgatacttag aacaatagct tctttgtgta 360  
attcgaggtt gcgatgaatgg gttagttact ttgtggatat atatatggac ctgaatgcta 420  
gctg 424

<210> 16241

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16241

ttcttgtagt ccaatcattc ataaacctgt ttcaaacatt tcacataaat attgttaatg 60  
gtatatatta accaacttac atcctcagtt aacaaatgga acacctaata aatcaaattt 120  
acttacatta gccacaactg tagtatggat atgttcaaac acttgtcacc taaaataagg 180  
tcactaacat ctgtgtgtgt gatgaaaaag ccattcttga cattaggtat cccaaatttt 240  
tccccatccc atgccaaactc aattggcttt tggtaaatat caaacaagtt ctttaccaac 300  
tcttccaatg gataaactac agccactaca ttgtccattn tagcacattt aaccggtagt 360  
ggcaaacgc 369

<210> 16242

<211> 417

<212> DNA

<213> Glycine max

<400> 16242

tctttgcgaa aacttccttg aaaagctata gcttatctaa acacacccat ctaaaaacaa 60  
agatcacctc cttgagaagc ttccttgaga agctcgagct tagcaacaca caccctcta 120





tagcagaagc caacacatgt cctatitttga acagattntc aattacatac tacggataaa 420  
 aaa 423

<210> 16245  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16245

cgctcacgcn cnncttttga accttttgatt ctttgcacgc anagcgnan nnnnaactcn 60  
 ngacccggcg aggcgatatc agtagacctg aattgcaggc tttcttgctt tctctgcang 120  
 catactagag ccgtgacaca catttcgcct aaatagtgtt tatggaatat aacaaccaac 180  
 tgacatttct cagacaacga atggagacac ctaatcaatt ggatttactt acaatatcca 240  
 caactgtact atggccttgt gtgaacacgc ttgtcacctc aaagtctgct actaacatat 300  
 ggggtgtgaga cgaagaaaca atgtttgaca ttacgactcc catacatctt ccctacaatg 360  
 caactatatt ggcgctaggt aacatgaaac tagtactgtc caactcttcc catggtgaac 420  
 tacaccactc cattgacatt ttaaccattt aaacggtctg ggcaaacgcc tttgtgaat 479

<210> 16246  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <400> 16246

caagagacac ctgcttgaga cacctccttg agaagctcga gcttatcaac acacaccctt 60  
 ctaataacta tgctcacctc cttgagaaga gaagctagag cttagctaca caccctatt 120  
 atagctaagc gcacccccct gacaaaatac atgaaaatac aaaaaaaaaag tgcctactac 180  
 aaatactgct cggaatgccc tgtaatacaa ggctaaaacc ctatactact agaatggccg 240  
 agatacaagg ccaaaaagaa ggcaaaaacc tattctgata ttataaaga agagatgatc 300  
 caaccttgac ccatgggctc aaaaagctac cctaagggtc atgagaaccc 350

<210> 16247  
 <211> 518  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16247

cccacccccg ctccaacttt aaaaaaaagg aagtgtttta ccccgctgta tcatcnacaa 60  
acaaccacan nngcctgagc atgaatcttc gaaaccaagg cgaaacgact cgcaccggga 120  
tctataagac gaccgttgct gcattcttga acaccagcga gaccacgtgc gagtgaatac 180  
actgtgacga gatggaatac ttagaatcta accacgagtg acaggtagta taactaggac 240  
ctggaagcaa acagaaggtc gtaaatgaac ctcgaaagag agacaaaaac cgaatgatgc 300  
tgtagaacia tacagtgttc gcatagtaga caaaggcatg acgctaggag agagagtgga 360  
ctacactcac accactgaac gcagcacgaa aagaacatat atacgggagc taaatatatg 420  
gtgacactca cagcctatga gtacacaaa tggaggataa aaaagtatac taaaaggaga 480  
accggtagaa gatatacata cggaccaacc agaccgcc 518

<210> 16248

<211> 322

<212> DNA

<213> Glycine max

<400> 16248

tgactacacc gtgattctaa gacttagtct ctcttcaaaa tttctgagag agcttaatct 60  
tcatgggtgt tcatctctaa aggaaatctc actggaatga gaagacatga atacattgaa 120  
tatatctggc accactatat gtgcattgtc gctatcaatg tcatctctcc ccaagcttac 180  
atatttggat ttaagtgatt gtagattgat tgagagactt agccttact caaaatctct 240  
ctccaaactt aatctatgtg gttggccatc tctctcgga atctcagcgg cgcgccgagga 300  
actgacgaat atctatttgt at 322

<210> 16249

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16249

agctttgagt ttattcaggc gacaatatct tttactcgt atgtctgatt gagtcccgtc 60

atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgaatcctgt catatatoga gacgctcgaa attgaatggt 180  
 gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240  
 taatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300  
 actntttact cggatgtctg attgagtcctc gtcatacatc gagacgctca naattgaatg 360  
 ttgaagctct gaggaattc taacg 385

<210> 16250  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 16250  
 tcaacattca atttcgagcg tctcgatata tgacttgact caatcaaata tccgagaaaa 60  
 aagttaatgt cgtttgaatt tgctcagagg ttcaacattc aatttcgagc gtctcgttat 120  
 attaaaggac tcaatcagac atccgagtaa aaagatattg tcacctgaat tggctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcgtttgaa tttgctcaga gcttcaacat tcaattttga gcgtctcgat 300  
 gtatgacggg actcaatcag acatccgagt aaaaagttat tgcgttttga atttgctcag 360  
 agcttcaaca ttcaatttcg agcgtctcga tatattacga gactatatca gacatctgag 420  
 taaaaagtta tt 432

<210> 16251  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16251  
 ttcttgtatt tgttatagga aggagtgcta gcaaacagcg gcactttttc tcattgggtg 60  
 aaattcatgt tgatctcaca aatcgagaa caggacttac caaataggaa atgaaactta 120  
 catatttagt ggacctacat gaatttcacg ggtaaagaa gtatattaga taatgtgttc 180  
 ctagcatttc tcttgttata cttataatgc ctatactaca gtttttgttt ggaaaatgtc 240  
 caggaacacc ttgcaagatc ccttatggcc gtgggcacat tcctggcttc atcagccaag 300

ataatataag agttggggac atcatcatca aagatcaagt cagtattatg actctaatta 360  
gtactgtgat tggttgggct ttatgtgct 389

<210> 16252  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16252

tatccaaact gaaacttcaa caaattaggc actgtctaata tcgttatatt ttcagtaac 60  
aaaatcaaag tgatcaattc taaaagttat aacataaggt acattgatag ttccatccat 120  
aaagggttta cttaaagttg cggatctgaa agtgggccag ccatcaacga cacttctggt 180  
gccagtaata actgtaacat cctttccatc gccaaacaga acaatattgg tcttataact 240  
tgggatttca acattttcct cgtaagtcct ttctttgaca tagatcactg tcctaccagc 300  
actgtcattt ggagcaaagt tgatagcctc agtgatgaag cttaaagtttc cggttccatc 360  
agcagccaca acaagctctc ctccatcatt gctntgcaag agacggcgaa cggttttcat 420  
cgacaaccac aac 433

<210> 16253  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 16253

tgcattcttt gtcttctttg gatgctgact tgtggcaaga agccattaat gacgagatgg 60  
attctttaga atctaacaag acctgacatt tagtagactt gcctcctggt tgcaaaccac 120  
ttggttgtaa atgaatcttg aaaaagaaac taaaacctga tggtagctgt gataaatata 180  
aggctcgcct ttagccaag ggttttaggc aaagagagaa tgtggatttc ttgacacct 240  
tttcaccagt tactagaata acatctattc gggtagctaat atctcttggt tctattcaca 300  
gtctagtagt acaccaaagt gatgttaaaa ttgctttatt aaatggtgaa ttggaagagg 360  
aaatctatat ggagcaacct gaaggg 386

<210> 16254  
<211> 421

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16254

tctcaaggaa gctacctagt ctataaatag aagcttgtgt aacacttggt gtaactttga 60  
tgaatgagag tcttgtgaga cacaacttaa agttcaactt ctctcccttt ttcttccctc 120  
aatttcatgc tccccctctt ccctttctct ccctctttat tttcctccat tgaagcatcc 180  
tctccaagct tcttatccaa ggctcatctt ggtgggtgaag ctcttcttcc catggcatat 240  
tccctggtgg atggcgctc ctctcacgcg ttctcctttg tcttccgctg catctccatg 300  
gtggaaaatc accattaaag gacctcattg aagctcanag atccagcctc catagaagcc 360  
ccacaagcaa gcttccatca agtggtatca gagcacaaga gcttcaagta ggtgctcctt 420  
a 421

<210> 16255  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16255

atctttgatc taccaccgcc accatcatct tagttntcta tcatgtttta tattattagt 60  
actttgattt ctagccgtgt atttggctat attattatga catttgaaca atttagtatt 120  
tcttttattt gcataatatg attgaacaat tatgaattat gctttatgac tatgtgggtt 180  
ttatatattt gatatatcca tgtttcttgc ttcatgattg gattagattt ttccaatgaa 240  
tgtcttgtga atgattagta atatatgtat gttttatatt tgttgcacac tttggctttt 300  
tgttgatgcc aaagggggag agaaatagga ttaaatacaag aactcacata agaaattaac 360  
ttaatttcaa gtgaagc 377

<210> 16256  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16256

ntgtgtaatc gattacacta ttttggtaat cgattaccag tgattgtttc tgaataaatc 60  
 aaaggatgta actcttcaaa aagtttttga ctttttcaaa ttggtttttag gtttttctaa 120  
 aagttataac tcttctaaat ggtcctcttg gcaagacatg aagagtctat aaaagcaagg 180  
 ctttgatttg cttttcaata tacttttcca atcaatctta taaaatcctt tacaagcctt 240  
 gaatctcttt gaacttcttc ttcttctttg tgccaaaatc tttccaaagt tttctggttt 300  
 tctaaacctt gaaaacttgt gccattcatc ttttcattct cttctacat tgccaaaaag 360  
 aattcgccaa gggctaacct cctgaattct ttttgtgtct ctcttctccc ttctccaaaa 420  
 ga 422

<210> 16257  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16257

ttcttacata tttaggttta agtgactaca cagtgattca aagacttagt cttcattcaa 60  
 aatttctgag agaacttaat ctcaatgggt gtcatctct aaaggaaatc tcagtggaaat 120  
 aagaggaaat gaatacattg aatttatctg gcaccactat atgtgcattt tcgctatcaa 180  
 tgtcatctct ccccaagctt acatatttgg atttaagtga ttgtagattg attgaaagac 240  
 ttagccttca ctcaaaatct ctctcaaaac ttaatctaag tggttgttca tctctcttgg 300  
 aaatctcagt ggcgtcagag gaaatgacaa atataaaatt gtattaaatg ctaagagaac 360  
 ttaatttana agattgt 377

<210> 16258  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 16258

taacccttct atagatcatg ttaaaacaca ccattatggt tgtgcaatta aggaaatact 60  
 gcaattatct gaagtgggtg caatcttgaa ggtgaacttt cataaaattt gtttggcaat 120  
 tatttcaagt gatgtctatt atcatcattc tactttataa acatattttc atatatgggtg 180  
 tatagcaact ataattagaa ttactgtagg ttgggaaaaa tgaaaatata tattctactt 240

gcttgtaaat ggcttaagtg aggctacaaa gatttttccc tttcttttta ttccccatt 300  
 tttcttgct tagttctatg ttactttcat tttggaaatt tcttttatta atcttctaaa 360  
 atatttctta cagaatcatg ggtgatgttc tacccttcaa gtcttcaaga gttaagattg 420  
 agatt 425

<210> 16259  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16259

ttcttgaagc attttttaca acagagagtt tcatctccag atcaggtgtt gattggccaa 60  
 actgctaggc tatcaatttg aagttaagta caaacctggc ttagagaata gagccgctaa 120  
 tgctctgtcc agatgtcatg gtgaggtaga aatgaattct attatttctt ttcccttggtg 180  
 ggctgataga cagaaacttt tggatgaaat aactaatgac ccgtacattc aaaagttact 240  
 gaaagaagtg caggagtctc ctgatgttag acctgagttt cagggtgaaac atggagtttt 300  
 actttatcat ggcaggctgg tgatttcccc cgaatcacc tctattcctt ggctattgga 360  
 agaatttcat agtactcct 379

<210> 16260  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 16260

atacctttca tcatggcatg ttgacataag ctcttttagtt gagggtaaaa tttgtcaaaa 60  
 aagaaataat attcgacaaa aatataagag tttgagataa aatttgtcaa ataaataata 120  
 ttatgatctt attaaaatgt ttaatggggc ttaattttta aaattttcta agttttctac 180  
 cataggagct ctttttttca ccccatccat gttgtcacat gtgggtgaaa agaggaaaga 240  
 gagggatggg atttctcttg ctttaagcat aacggggccaa agtgggaggc ccacacgaat 300  
 gggtattagc tcagtagtaa agtgtgtcct tgataattgt gtctgcttgg agtggagtga 360  
 gacatgtcat tgaatagcaa ggagatagcc acttcgttat gaaattagaa aagttaagag 420  
 ccct 424



<210> 16261  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 16261

ttctttgagg ttgagttgct tgcagctatc gcctgtcact ggaaagggaa ctttctctgt 60  
 ctaactccaa gaaaaacaat tactagggtt tatactttat actaaggcac tttctatcgt 120  
 ggaccccccc acatgcagag gcttccccat cccaagttca accctctcaa gaccaagcct 180  
 cgaccactgc gacagaatca gttatagatc caattgagca gaaaattcaa gtagcaaaac 240  
 ctctaaaatc attgtcatat cctaatttcg tccggggatt attatttgat gctatacaac 300  
 ctttgattgg ccgcttcgag atacttggca ccctttgtta cacaatatgt gaagtcccga 360  
 gac 363

<210> 16262  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16262

tgtgcctctt caggtccgga atatgaatgt agcttataga tccaaagacc cttaggtgct 60  
 ttgtgatgg cttcttcccg ttccaagctt caattggagt catgtctttt acagacttag 120  
 ttggacatct gttgagtatg taaacaacat tgtagattgc ttcagcccag aatgtgtag 180  
 gtagtccctt ctcttgagc atcgatctag ccatttccat aactgtgcaa ttctttctct 240  
 cggacactcc attttgtaa ggagaatatg cgactgtaag ttgtcgctca atgccttcat 300  
 cctcacaaaa tctttcaaac tcgagagagg tgtactctnt gccgcatca cttcttagta 360  
 cttttatccg ttttccactt tgattntcag caagggcctt gaactttntg aatactccaa 420  
 ag 422

<210> 16263  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16263

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ccctcccgcc tctggatcta ataaaggag ttccaaacga ctatgcatca catccgcccc 60
gacncatgag cttgatgac cttgaccac agggcagtga ctctagagc gaaccaatag 120
atgcatttgg ggcattcact cacaaggaga tgcagctgcg ttcgagacgt aaagcagatc 180
acgataagca ccctagaca acaagacgtg aagggtgacta gccaaactatg acagaagaaa 240
caataagaac tactgtacat gcatagaacg aatgtgcaac catggatcaa gcaacatgaa 300
taggcggata ggaataacac cgacaatata tggttctgag gtgcatgatg ggacaacatt 360
agtgcagca atctcctgag aagggaagg aataaccgca tgtcatatgc ttgatgcaca 420
ctgaggctct atggtcgagc cttagggcga gagaaatatg atcaaaccgt gaactcacat 480
aagaagatat acttagttca agtgcagccc g 511
```

<210> 16264  
 <211> 162  
 <212> DNA  
 <213> Glycine max

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<400> 16264
aagcaaaaga catgcacacg taactagtta tgcgtagatg acagtgctac tatccgctat 60
agcaccagac ccactccagc gstatggtcta tacaggcggtt attataatgc gacactattg 120
cctttgcaca gttattttcc ccatgagtgc caatgatatt at 162
```

<210> 16265  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16265

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cggcacacgn atgaagcatt gattgcctcc atngacatnc cgcnaangac accgggatac 60
tctagagatc tacctggagg catgcgtttc ttgctttctt tatcgagcgc ccgaatagag 120
aggaactcaa tatcacgtgc tgaatggaca aactggtagg ctgtcatacc gcagaatatc 180
accaaccgt cttaaacaga ttagcctgta atgctctgcc cacatgtcat ggggaggcac 240
aaaagaagtc tatcaattcg ttacctcgt gggctgatac accgaaacta ttggatgaaa 300
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taaccaccga cccgtaccct cagacgtaac tgaacaagt gcatgagtcg tccgatgtca 360  
gacccgagtc atatgtgaca catggagaat tactttatca tggcatgctg gtgaattccc 420  
cacgaatgcc ctctattcct tggttattgg tagaattccc tacctcctcc cc 472

<210> 16266  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16266

gacactgacc ccagtgaagc gttgaanttg angtgttgac atccacaacn ttnanaatat 60  
ccagacctca gtaacatctg actattatgc ctacacgatt ttctttaggg aggcaagacg 120  
caagaaggag atgggatcac cttcgcacca acagctccac acacaatcct gtctctcaaa 180  
agtatgatga agtccccaa aaagatctag agagtcctcg atatcgaacg atgtatctct 240  
gagccaccat aggagacctt ttttttacct catgcatgct gacagatgcc ggtgaaaaca 300  
cgatacacac gcatgggact tctcttgctt tacgcatatc cggcctacat cgggagggtcc 360  
acagcaaggt gttatcagct tacccaatat attgagacct gtttaaagt cgtggccttag 420  
acctgacgca atcaagtcac tcataagatc gagaggacgc cttgcgatac aataaacaat 480  
cacgaggccc tct 493

<210> 16267  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16267

agcttgtgtt ttactcaaca tggatatgca tttgtgcttg tgatgcaaga aaattttcct 60  
cgacgcaccc caactcatca ggtcattatg attacttgta aactttttgg gttatagata 120  
taaatagaat tctaattatc ttaaatttta attcataaat gtacattaac agaatttana 180  
aataaattat aatatagaag acactatatg gaaaatgcat ggattccata tggaagtggc 240  
aacagacagc tgtatgactc tactattttac taattactat atgaataaac tctccccttg 300  
cactc 305

<210> 16268  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16268

nttaaactaa tttaattatt gcttaagaat tttatattca tctatgatgc acttgccaat 60  
 caatcaaaac catgcacacg taagttggta tggatgatg attgtgccgc tattcactat 120  
 tgcaaaagca ccttttcacg tcatggtatc tacatcggtt atcaaaaacc gatgtaatac 180  
 ataatgcagt gctattttcg taattaacgc caattatatt atgccgtcaa cgacgggtttt 240  
 agtgaaaccg cctttgatgt taatcttact aaggcggttt tataaagacc gtcttagatt 300  
 caagtgatgt ttaattatgt tatttattgg aaaatgatgt ttaattataa aaactcatgt 360  
 tggacactgt tcccatcttc gtaaacccta aatccccctt tatatatgca gttggcgaag 420  
 aagcgagccg acaac 435

<210> 16269  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16269

agctctagca tgtgtctccg tgatagaagc catttgatct ttttaaggctg ataggtcgac 60  
 cttcatctgt tcttgcactc cctcttcatt atccattttt ctggattgag tgttataagg 120  
 gtgcctttgc gcttttttag ttatggcgag ttccttaaag aaacaaacaa tggtagtat 180  
 gccacaaaa catgaatatg ctaatgaatg atcagagcac ttggattcac ctcaaggcct 240  
 tttatagata acgtgatgag tttcagaact tctctgtgta taaaaaggaa caaaactttt 300  
 atctagccaa gatcatacca aagtgttata acagaaccta acggtttcta attatatggg 360  
 ccatcaaata tatcatgtgt tgacagtaat 390

<210> 16270  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16270

tctacttatg tggcagagcg ggcttccttc actttcttgt ctcaaccgct agctttgacc 60  
accgcccttc cttcccgga tgcttctctt tacatctgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc ctttggcatt tatcaggcca gttatgccgc cattgtccct 180  
gcctaaaccc attccgggtt cgtaaccgtt cccaacata actcgggcca tcattactgc 240  
tgcacggac aggcaaggct gcctagagaa ggagtccacg gaggaaatgc ttaccacttc 300  
aaaagactgg aaagcggttt ctaatgactc ctctgcggct tccacataag gcatagagga 360  
tgggcagctc accaagatgt cttcctcgcc tgatacgatg accagatgcc cttccactac 420  
gaatntcaac 430

<210> 16271

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16271

agcttcaacg ttcattntcg agcgtctcga taagttacgg gactcaatca tacattcgag 60  
aaciaagtta ttgtcgattg aattatctca caagttcaac attcaatttc gagcgtctcg 120  
atatgttacg ggactcaatc agacatccga gggagaagtc attgtcgctc gtattggctc 180  
acagcttgaa cgttcaatth cgagcgtctc tatatattac gagactcaat cccacatccg 240  
aatacaaagt catggctcgtt tgaatcgctt actagcttca ccattaaatt tctagcgttt 300  
t 301

<210> 16272

<211> 295

<212> DNA

<213> Glycine max

<400> 16272

ctttagccaa ttcagacaac aataactttt tactcgtgat gtcttattga gtcccgtaat 60  
atatcgagac gctcgaaatt gaatgttgaa cctctgagca aactcaaacg acaataactt 120  
tttactcgga tgtctgattg agtcccgtaa tatatcgaga ctctcgaaat tgaatgttga 180  
atctctgagc caattcaaac gacaataaat ttttgctcgg atgtctgatt gagtcccgtg 240

atatatcgag acgctcgaaa ttgagtgtgg aatctctgag ccaattcaac gaaca 295

<210> 16273  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 16273

agcttttttt tcttatttca ataggcatca acatgaagtc tatcaacata agttaattaa 60  
ataagtgcct aatcgagatt tttgaactaa atgtgcccta acatgagttc agtgatacaa 120  
gcacactaga aaatgatgtc ataacatgta tcaattgaat gtttgaatgc aaaaccaatt 180  
ttttgcatga agttctccag taccatcatt ttcaggggac ccgctgccac aatttaattt 240  
caaaattgcc aatcggtaaa tcacatcatc tatactaagc tacgtaaaat tcatatacaa 300  
ttaacaccac taatagaaca atgcatgaaa atcccctacc atgtaaagat gctgaataat 360  
aatgtacaaa tcaactgcaga aacattgag 389

<210> 16274  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 16274

agcttaagct gtaacactga ttcataagaa tatgatactt tcttcccaca ctttcttccg 60  
ctgagtatgc tggagctaag caagttacga ctcttttcta ctggaactgg gatacacctt 120  
cccgactatg ttagcggcta tcgctgctga cgttccatga ctggtggacg cacaccagcc 180  
tactgaagaa actcgacaaa aagcgttgct gtctccagct gcataggtga actcttgaca 240  
ttgacagtga actgttgccg aaatatggta ggaccaatgg tgtaacatc agctatttaa 300  
tttcacaggc gagttccata tgcataatgc tctatcccga agccaactca tactccttag 360  
tccctcacat caaaacaaag tccaagctct acaaaatatt aacaagtaac tctagatgtc 420  
gcagcggaca taacttagat caagtt 446

<210> 16275  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 16275

tgcttcaaga atcaagtttc aaagaatcaa gattcaagaa caatcaagtt tcaagattca 60  
atcaagtttc aagaatcaag atcaagattc aagactcaag attcaagaat caagagaaga 120  
ctcaatcaag ataagtacta aaaaaagttt ttcaaaacat tgagtgcaca agaatttttc 180  
acaaaatctt ttaccaaaga gttttactct ctggtaatcg attaccagta gccaacattg 240  
ttttcaaaac tgatttataa agctgtaatc gattaccatc atcatgtaat cgattaccaa 300  
tgttttagaa cgtttagattt caaatttcaa gagtcacaac tagtgataaa acattttcag 360  
atcattgtac acttgt 376

<210> 16276

<211> 421

<212> DNA

<213> Glycine max

<400> 16276

tgcttgagag gataccatga caaacaacat tggtttctt ctacttccca aatacatata 60  
aacagataag cccatatgaa ccaaagttt ttccatagaa atcatacaca ataattattat 120  
gaggaataag gtcacagta gtcttaccaa atcttctcag cataaatttt ggcagaatat 180  
ttatagttgc tccatcatct accaatattt tgttgataat ttagtctct accatggcag 240  
tcaaatttag aggcttcata tgagatttcg tctcatttgt tgggtggatca gaaacaacag 300  
cattatgatg aaaggtaaaa caagacactt gagtcaccta aacaaccttt gtagttaag 360  
aatgatcttt gaaacactat tcccttgac aatcccttat cacatgatga gcttgatatt 420  
c 421

<210> 16277

<211> 382

<212> DNA

<213> Glycine max

<400> 16277

ttcttatcaa cggtgaccca ctatccaaca ccataggctt cttcatatta taaatattcc 60  
tcagcgtcct cttcatctc ataagaatac actagaacat cgtgaaacat gtcaacattg 120  
gtacatcat ctaccactat gtcattcagt tcttgatacc aaagtcatta aaatgcttct 180

cataagattt aaacaaacga aacaacaata ccatatatca ttcatttagtg ttaccacaaa 240  
 aaatgttgac gatgcatcac caccattctc accatgtata tattcacccc ttccactcat 300  
 atttgtcaca cattacacaa caaacttcct aagtcagtaa ggacaaacca gagcattaaa 360  
 cgacatagtg tgttcatcat ta 382

<210> 16278  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 16278

atcttgtgga accatggagt ttagcctctt tgttgtacac ctatacagaa catgcatagt 60  
 tgtcatagca gcctcaccct ataaactatg aggaagattt ttctctttaa gcatgcttct 120  
 aaccatgttc aagattgttc gattgcttct ttctacaatg ccattatgtt gggggtgtaa 180  
 tgagcagtta cttcatgaac tataccatgc tccttacaga aaccttcaaa ttctccagat 240  
 gtgaattcac ctccaccatc tgttcttaag atgttaatgc attttccaga ttgcttcttc 300  
 acaagagcta tgaagtcttt aaaaatgttg aacacatcac tcttggtctt gattgggtag 360  
 agccacacct tcctgctaag atcatctaca aaagacacaa agtatctatt ctctccta 420  
 g 421

<210> 16279  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16279

ttcttgacca atcccgaccc aaccgggga tagtcagtta gtgagaacct gtgatgtacc 60  
 taaacaggcg agctcttggc agtcaaccga taaaagaaca aagaccacaa agcaaggggg 120  
 cttgtgtggg ggctggccag ctgtgaatct tgtgtgatat atgggatatg gcctctggta 180  
 atcgattacc aagggtgggt aatcgattac aaggcttaaa agtgaagaca ggaagctaag 240  
 atggcctctg gtaatcgatt accaaggctg tgtaatcgat taccaggctt aaagatagga 300  
 tcaggaagtc gagatggctt ctggtaatcg attaccaagg ggtgtaatcg attaccaggg 360  
 ttagaaatgg agacagtagg t 381



<210> 16280  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16280

nttgagtga acaatgtgac tcttcattnt taaatttgaa tttcaacggt caaggacact 60  
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcctt ttgaaaatat ttggaacatt 120  
 gtaaattcag tttgaaaact ttttcaaact cattttgaga ctggtaatcg attacaacaa 180  
 tatggtaatc gattaccaga gagtaaaaac tctttggtaa atgtttgctc aaaaactcat 240  
 gtgctattca aagttttgaa aaaacttttt aatacttata ttgattgagt cttttcttca 300  
 ttctttaatc ttgagtcttg aatcttgatc ttgattcttg agatcttgag tcttgattnt 360  
 tgattctagg ctttcttctt gagtcttgaa ttctccttga ttcttgaact cttgactt 418

<210> 16281  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16281

ttcttgtctc aacgtttatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60  
 cgagaagagt tagccatggc ccacgagcat agaatcgagg atgagtatgc tcaagtatat 120  
 gcggaaaaag aggctagagg aagggtgatc gactctttac accaagaggc aaccatgtgg 180  
 atggaccggt ttgctcttac cttgaacggg agtcaagaac ttccccgatt gttagccaag 240  
 gccaaaggcga tggcagacac ctactccacc cccgaagaga ttcatgggct tctcggctat 300  
 tgtcagcata tgatagactt aatggccac ataattagaa atcgtttaga aacttgatat 360  
 gtctctcaga cttgactag a 381

<210> 16282  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 16282

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tccttaagaa gattcctaga gtagctagag cttatctaca cacaccctc taatagctaa 60
gctcacttcc ttgagatgag aagctagagc ttagctacac acacccctc ataatagcta 120
agaacacctc catgccaaaa tacatgaaaa tacgaaaaag tccctactac aaagactact 180
caaattacct tgaaatacaa ggctaaaatc ctatactact agaatggcca aaatacaagg 240
cccaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtggacc c aaccttggcc 300
catgggctca aaaatctacc ccgaggttca tgagaaccct agggccttct tttgcagctc 360
tagcctaatc ctcttgaggt attctatcaa atacccttaa ggggtaggat tgcatacaca 420
gatcaagt 428

```

```

<210> 16283
<211> 364
<212> DNA
<213> Glycine max
<400> 16283

```

```

ttcttttttg aggatcttgc ggactgctg tgatcatcata cctttaatgc cttctcctac 60
aatcctgaac agcagaggaa ctaggggata cccttgactc cacaccattg ttgttgataa 120
accttagagg ggatacgc ataatcccacc tcacatagat gctgattcgt tgcttgctga 180
tataccggac cgttcttttg tgcataaccc cagtctaaac aacatatata ccaaaactga 240
cccagacact gccacgatcg ctttttttaa attcaccttg aagatagtca ttggatactt 300
gctattgctt gcttctcaca ccacctcatt gataatcaca tgactctgga agatatgcct 360
acct 364

```

```

<210> 16284
<211> 418
<212> DNA
<213> Glycine max
<400> 16284

```

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cgcatgtcta taagatggct gcatgcggaa ccacaccttg atgaaggag gctgccactc 60
tctctggctg gtctgaccat cttcgactgt gagaaagcta aagaaactgg actacatggg 120
gctgtgtaag ctctcctatg tcacgcgact gaggcttgaa gactgcccc aacctaccaca 180
gctaccagag gagggctctt ccacatccag atcataatcta cttattatat gctgccccac 240

```

cctcgagcag cgttgccaga accacagagg cgacgactgg ccaaagattg ctcacagtta 300  
cagcacttcc agaccctgc ataatttgat agaatcacgg taatgatgct gattctcaag 360  
aatcatcatc aaactttttc ttttatagta gatctgaatt atcatgaacc ttctacac 418

<210> 16285  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 16285

tttcttgtgt ctgaaaaatg tggttgttgg ggcattaaat gcgtgcattc aatgcacata 60  
cttcttcatg ctagaaaacc actctttgtc actcgtgtct tgaacactac aataggaaac 120  
cacttccttt tgtgttagaa catgtttggg caatagaact cttcttttga tggaaattga 180  
aaaatttttag aacttgactt catttattct tcatatgatt cgataaatca taggagaatg 240  
tctttgcaa atagatctta aacacagagt attaaatgaa gtctaataa aactctaata 300  
ttgtatcaga tcatgattac atcttgctac tatctggaac atcatacgca aacttctggg 360  
aacatgt 367

<210> 16286  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 16286

ttaaaatttg aggccactca taatttattt cactgttttg actaataatc taattaaaat 60  
ggcgaggagc atgtgagggg attctaattg ttgtcctatt caaacatatg ttagtaaaag 120  
ggttatttct atgtgcgtag tgatcctatt atgatatatg ataccatttt caaaactaga 180  
cacacaagga tttctatagt gataactttc atgaaattac attaagagat gattgatata 240  
ttgattttat aagatgatgg tactgcaatg caataaaaata agcatgtgct acttttttat 300  
ttattatgaa ttatgtggat ttttacttgg actttgggat accatttcat gaactagatt 360  
ccttatgott attggatgat gttacatgat aatttattat gtgattgctt ctataatgag 420  
a 421

<210> 16287

<211> 359  
 <212> DNA  
 <213> Glycine max

<400> 16287

tgctgtctta gcacagaaga tcacatgtcg gagagtatta ctgaacttct cataggcacg 60  
 gatgatggca tgctattgaa gataatccga tgaaatagca atatccatgg ctctatgcgg 120  
 ccgaggcagc cgctggacag cgctgaatct ggtgatatca ctgtgatgat gacaatcggg 180  
 atcgacatcg gatgggtgct catgcactac tagggactcc ttgtgatgag atgcacaccc 240  
 atggactgag gcaatatatt tgcgaggcag ggtgttcaag ataccagctt cattgataga 300  
 ctgagagcgc atgaggtgct cgggttcatt aaagcactgg agcggttatct aacgcccatt 359

<210> 16288  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 16288

tgcgatgatgt acattctcca cgttgcttat tcatattcta cgtgacacga tctgatctt 60  
 gatgatacta cactggcgcc atcaaattac tctaaccgga atatactcac atgaaatagc 120  
 ctaacccttc gagatctatt cttgactcct aaccagactg gttataagtg agctgcacta 180  
 tgcacaagag acaccattaa ctagataact gcgcattatg tctagacatg cacacatgta 240  
 gctgctctag caaggactaa agacttcaag cattttccag tacgcaaaac ct 292

<210> 16289  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 16289

ttcttggaag catgctatga tgctgatggt agaaaaatta aatacgacag gaactaatac 60  
 ctgtacaata gaggaatgaa ggtagaagtt gtgaggcaca agagttgctc ctaatagact 120  
 catcagcaca aatgcactct cccactcaa ctttggttagt attccattaa tggataatgg 180  
 aatgtctggt tgattaatga gtgttccaag tacaacgaa agaaatacaa aacctgacac 240  
 aaacaggccc aggatcttca ccttctcaat gtcctagaga aaggatatat cataagtgta 300

ttgtcgggtca acagagattc atgaataaac aaataatgat acttaccagg agggcatata 360  
gaaggagatg 370

<210> 16290  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 16290

acacccgctt tttccttattc tttacaagaa acgaacgaga aaagcataaa caaatatttc 60  
aactgccac tggccttaat gcgaataagg gagtgcgac atagcctact aaagcgtgtc 120  
acgatttatg tggacgaatt gaatgactaa gctacatatg ttgccgaat gatgtagatg 180  
gaatgataca gatgtcgttt gatttgaaga atgggttgtc attacattag ataaggtgaa 240  
agatagtact tatgtactct agtctcaatc tcaattgatc cacatcgaaa tgcgagctta 300  
agactttata atgagtgggt tataatgcgt tgcgtgagca gttatagatt caggtgcatt 360  
aaattaatct tac 373

<210> 16291  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 16291

tttcttttgt ccatgcattc ctaaagtttg gaacagtgtc ctaacaacag aatttctcac 60  
ttgcaaaaca aaactttcag taccagaaag ctttaacatc cagcaacaac aatagtagag 120  
agaaatataa gtttgatggt ctattgaaat gggttttgtt ctattgtcca aatttcccta 180  
atcgggtatac aagtagtaga gagaaatgga agtttgaagg tctatttaaa tggttgtaag 240  
ttgtaacatt tathtagga gaacattagg tttatgaatt atggctcttct tcgtcatgca 300  
atgaaacca atcttgatac acaatagacc caaggaatga agcctagatt tctgctatat 360  
tatgatttct tt 372

<210> 16292  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16292

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nttgagggttc tggaataatt gattatcaaa tgaggtaatt gattgtttcg tcacacaaaa 60
agcttataaa gtttcagac acaatctaatt cgattactaa atgtggtaatt tgattatctc 120
gagccacaaa gtcttccttc ttctaaaact ggctttataa tcaattacta aattgataat 180
tgattaattc gatgacttta gccaaatttg aaatagaagt gacttttagcc aaattaagca 240
acacatacac caattaaccc ctgtgttcatt aagcacaaac ataatttaag cacataggca 300
attaattgaa cacgaagtgt gcacagatta acagaatgca tgtgggttaa ttggtgaagg 360
gaaaaccgat atgagagcac cattaataat 390
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<210> 16293  
<211> 379  
<212> DNA  
<213> Glycine max

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<400> 16293
tatctttgga ttcagaggaa cagatgatcc tcccggaaac actgcaagta aattatccca 60
tcctcctoga atacctccac agtgcctctc tatcaactcc ttcagtggaa tactcatttc 120
ctcctcaaca gtgcaaggct tggttcacatg ccccgacaca caaaacaact ttgtcccagc 180
attgtttcttc ctacaaaaac tggcacaacca ttcaggccca cgccttagaa tgggttgaga 240
aacagcaaca gtttcacat ttgtgacagt ggtaggacat ccatacaacc cagcattggc 300
tggaaggggc ggcttcaatc ttggtttacc ttgtttccct tcaagactct ccaagagggc 360
tgtttctca ccacaaata 379
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<210> 16294  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16294

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tgtaaagaa cgacgtaatc attaatact agttgttaatt tatcactaga gttatttatg 60
cattaaagac tatagcaaca aaaagaaagt cgtattcccc agtcagaaaa aaaatggtat 120
ttgctcgagt catagcatca agtctcgta cttcagatat aaatataagg agaatatcca 180
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acaatggtat gaaattatgt cgtatacctt ttcttcaata tggatttaag caccacagcct 240  
tctaagaaag tatatagatg gtttgctaga agatgaaagg aaaattaaat ttgtgtttat 300  
gatacaagaa aaacaggctg aatgaaagtt tctcaaggga tgagaactga aaaaagaaag 360  
atatcttcac ttanattatg ttctcttaac acaattagtt ttatgtacat tataaa 416

<210> 16295  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16295

gtgctttcat ctagccaaga ttatacaaag gtgttacaag agaacctaac ggttttctaatt 60  
tatttgggag atcaaatcta tcatgtgttg atagtaattg attagcccat gaatctcttc 120  
gggggacgta cacacttcgg ccatggcttt tgctttggct aatagacgag ggaggtcttg 180  
acttccattc aagggtcaagg cgaacctatc catccacata gtcgcttctt gatgcaatgc 240  
atcaatcacc ctccctcttg cttctttttc ggcgtacact tgtgcaaaat cctccactag 300  
cttttgttca tggggcacag actgggttcaa ctcttccttg tattgcccta tgatagctag 360  
catgctttgc tccgtggc 378

<210> 16296  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16296

tataagaaca aaattgccta aatcatttcc aaatatgcat gtaaattatg aagcatcaac 60  
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120  
tgatgatgga tgggtcaaatt tctcaciaag gtaaacttat cactttcaaa actatcatga 180  
catgtagagg aaaaacaagg atttcaaatt acaaaatgtc aagagactnt tatttttaaga 240  
acaattaccc attatttgaa catatcctat aattcaaaga aaaatatgca aagttgttca 300  
tgcaaacaaa attgacctaa aatattaaac tagaaaccca acaaagctaa caaaactaac 360  
aaatttaaca caaacaaaac taacaaaact agcaaaacca aaaccaaaga acacttcccc 420  
cc 422

<210> 16297  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 16297

gccgacaagt tgggacctca tccaatgtct cacctttgca aggagctatg ctccagcgat 60  
 ttgactaatg aataccctaa ccatctcaca ctaattaatc tactatatac gccttctcca 120  
 caataatcta attaagatta tgacatacat cgcattaggt atgagtcttg catgtactat 180  
 ccctcattcc gcactaattg acgacgaccg tggtgagaca aaaatcatga 230

<210> 16298  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16298

caccatactc cactcaccgc cacactcggg aactccaga ctacactaca aaaacaacag 60  
 acagcgtttt gatcgatcca ttgcagngca cctatanaac actcaagctc gagccaataa 120  
 tgccatgttg agggccaaac cgggtcttgta tgtcagaacc tatgcactta aatcacaggg 180  
 ccgcgacaag gagccaaccc acgcaccaat aactcaacc agattaaacg agcctaaaca 240  
 acgcccact cacactggac ggaagtaaca tggaacaata gggggacgaa cctaccaaga 300  
 aacatcatcc gggacaagaa caaataacg acatgtcgcg caggcacacc gagaacaaca 360  
 ttactcaccg tgaccgaaga tctctcacc cgcgccaat ggacatagtc catccgtatc 420  
 cgcaaacgc cgaactttcc acagggacga tcatgaagcc agaactaatg aaccaagaac 480  
 aatctagcaa gctaaaagaa cacgc 505

<210> 16299  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16299

ttcttggcat ttccaatggt ggaaggacct tanaagactt tataatcagc ctgatttcca 60



cagtatccac cagaatatgg tatggaaggt tggttgtggg gacaaaatca aatttttgga 120  
agattcttgg ctgagtgagg actgtaatct tcagcagcag aagtataatc aactcttcat 180  
gatcagtaga cagcaaaatc ttccatttc taagatggga aaactttctc agaacgtatg 240  
gagctgggag ttcaagtgga gaaggagatt atttgaccat gagtacgcgt tggctgttga 300  
tttcatggat gaaatttctg atatctctat ccagcatcag gttcacgata ccatgctttg 360  
gaaagctgat tctagtg 377

<210> 16300  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16300

ttgcagcgta tgccactcta ctctaaattc ttgtttgata tgtaacaag gaagcataaa 60  
tatattcatc aagaaaacat catagtgtaa ggaaactgca gtgctatgat ccaaaagatc 120  
cttccacca agcataaaga tcttgggagt gtaactattc cttgttcaat tggagaagtc 180  
aatgtgggaa aagctcttat tgacctgnga gctagtatca atttgatgcc attctccatg 240  
tgcagaagat tgggagagtt ggaaataatg cccattcgaa tgactttaca actagctgac 300  
cgctccatta gcaggccata tggagtaatt gaagatgtgt tggtcagagt aaaacattnt 360  
atcttcccgg cagactttgt ggtgatggat atctctgaag atactgacat ctttgaata 420  
tt 422

<210> 16301  
<211> 462  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16301

cgagtgggtgn ntttgatgca tgatacatga gcgacttcag ctcgtaaccg ggataactcta 60  
gattgacctg catggacggt ttccttggat tctgcggaac cgatgatcgc aacgggggtct 120  
ctgctccata aatcttccat cctacacgaa taccttcacg tcgactaatg tataaacatc 180  
tctagtggaa aatcctctat actcataaca gtgcagaggg tcgataaaat atcctcttat 240

tccattcgac ctgagtccac caatggcgta ttcctatcca taaaggatat ggaagcatgc 300  
aacgagtctt taaatgtgtg gacaatgaac caccgattcc agcagtgtgt aaggggtgtg 360  
aaatctagtc taactagcgt tggaagggaaggc aggcagtttc aaccctgcta tagcttgtga 420  
acgatatata caatactgga cggctctacc tccccgatac ac 462

<210> 16302  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 16302

gaggaattat ctgcttcagg cccttaatcc gctggaggaa gagctcttac atcccagttt 60  
gttttcctac gaccacggg aagacttccg cacatgcagc gctcccagtg aaataaaggc 120  
ttgcccttct acgatagtta cgccggcgat tttgtacgaa gctcccctgg gacgaaattg 180  
ccctaccttt ctcatgtggt aagaccacct cctaatagcc ccagcgtgtc aaacaacgat 240  
attcagtcgt ttcgatctaa ccccggtcca atatcaaggc ggggcgacat gaagataccc 300  
ttaaagcgtt taccctaaat ctggcttcca tctgacc 337

<210> 16303  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 16303

ttcttgtaat aaaaaacaag taaataatct ttacttagag atgaactaac atcttttgtc 60  
tgacccaaac gatgagctct atccatcgcc tgtagatcca atgttggtt ccaatcactc 120  
tcgtaaaata tgactgtgtc agcagctgtc aagttgatac ccaatccacc agctcttgta 180  
ctcagtaaga acacaaaaat atcactcctg aaacagagat ataaagaaac aagtcattct 240  
cagtagtctc accaaagtag acacattaaa gcatgacaac acagacatta cctgtgctgg 300  
aagtccttaa ccatgtctct gcgatcctga atagtggatg acccatcaag tctaaaatat 360  
ctatat 366

<210> 16304  
<211> 393

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16304

tgtcaaaaag ggaagcaagt tagaaactct tttcttagca agaacattgt ttctacttcg 60  
aaacccttg aactacttca cactgattta tttggtcctt ctagaactat gagtttgggt 120  
tgtaattact atggcttagt tatagtagat gattactcaa cgttcacatg gactttgttt 180  
ttgaaaacaa aaaatgaagc ttttgatgct tttcgcaaac ttgccaaggt gattcaaaat 240  
gaaatacgtc ttaacattgt ttcacttaga agtgatcatg aaggtgaatt tcaaaatgag 300  
tcttttgaaa tattttgtga agaaaatgga atttaccaca attnttctgc cccaagaaca 360  
ccccaacaaa atggtgttgt ggagaggaga aat 393

<210> 16305  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 16305

ttcttcatac aattaatata aaacctatat cctaattgtca catcctatca gagcggttgtg 60  
tccccgtgtc ctctagcatg aggttcttca tagtcatcca cctattcatc tgctcccccg 120  
aacacacggt caagatcatc acaggatcca aacacaacaa cacacaggga gtgagttatc 180  
acattcctag ctaatagaga aacaagacaa ttaaataac atattatata aatgagatac 240  
tacttgctta aacataactc acgtaatttc atcacgttgt cattcaaaat tcactttcaa 300  
tcatcaatca cattacacaa gaatctcaca ctccaatcaa gatataataa cacatcaatt 360  
tcataataa 369

<210> 16306  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 16306

tatcaatgtg gcagttccgg ggaccattgt ctaattggcg atcaatacaa aaaaaatact 60  
caatccatgg gaaaggaatg aaaatcacac actttgcctc aactctgcta aagcaattgg 120

atgtacagta gtcaacattg gcacccagga cttcattgaa ggaagggat gcttgtaggc 180  
attcaagttt ccaccataa aagcagaatt attgtgggcg tgtacactgc agaacaacaa 240  
aatttaagat taaatttaatt ttataaatga aatcctttgt taagttatga aataggaatt 300  
tttttattct aaaatcaaatt cctttgggtca gaaagttata agaatttttt cttttttttt 360  
ttttaattta ggtgtgatac tacaaaaaat ctggcaaatt tgatatttct 410

<210> 16307  
<211> 365  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16307

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tttttgcctt ttcttctttt tttaattgat cctttttgat ttcttctctt ttcttttcat 120  
ttcttttttc ttttcttttt ttttcttaatt actttttctt ttcttctatt ttttcatttt 180  
ttttattatt ttcggtccg cataaaatta gggctcgaca aagagaataa aaacataatt 240  
attctattaa ttatcataat tgtaattctt actcttttcc cacttttagat gttaattagc 300  
atctgggtata tatccaccat tnttctttac ttatttatca tatacggata taggttcata 360  
agggg 365

<210> 16308  
<211> 380  
<212> DNA  
<213> Glycine max  
<400> 16308

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aaatttagac tattaaagaa aatcaacaaa gaaaactcac atacctgaat atcctcccat 120  
atcaaatacct tctaagcagt agggacttcc ttccagttgt catatgtgac gtcgacctta 180  
tcatgagcga aaatcccaa atatgttctt aattttcttca tgtggggact gtcggccttg 240  
ccggtagcag aatcgacgtt gaccgcaggt ctttctgccc caggtggtct agtggccaat 300  
aatcgtaacc gtgttgctt gcgtgtccgc ttcaatgtag atggaaacgg ttatgcgtct 360  
gcaggaagag gaggcgagac 380

<210> 16309  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 16309

ttcgcacgtc ttcttctagc caaatggact taccttgaat taattccttt gatagccctt 60  
 ttgagcggtg tttccctttc ctgtgtttga agctcactac aagccttaaa tgaaaaacca 120  
 tgatatcacc atatccttaa ggaatgttgt aactttggaa ttgttttggg aataagtgtg 180  
 ggggtttttg tttcattgga taatatgtta gttggctatg cttcatgatg tatttttggg 240  
 ccatacttga tgtacattgt atattggcta aatgttggac atgctgaatg aaatgctgta 300  
 tctcaaagt ttcttgtttc aaaaaagata agaaaagaaa at 342

<210> 16310  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 16310

gtgacctata aaactcagct tatgatgatg aatcagttga ttcagttgtt ttatgatgac 60  
 taagatgatg acaaaaagcc caaagaatga tttcaagatt caagagaaga agaattcaag 120  
 attcaagaga agaaatcaag aagacttcac aagggaagta ttgaaaagat ttttcaaaaa 180  
 acaaacatag cacaattttg tttttcaaaa gagtttttct caaaattttc aaagttacca 240  
 gagtttttac tctctagtaa tcgattacca gtttcttgta atcgattacc agtggcaaag 300  
 ttgattttca aaagttttta actgaatttg caacattcca attgtttttt aaatgggtgta 360  
 atcaattaca atatattggt aatcgattac cattgtattt gaacgttgaa attcaaattc 420  
 aattgtgaag agtcacatc 439

<210> 16311  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 16311

tgctcttaaa ctctatacaa gaatgaagtt ctgataccac tcgatagaca ggtggcctca 60

gatatcttta agaatggggg ttttgaatta agatatcaaa gactattctc caattaaaat 120  
 ttttaactctc ttcttgagtt agaaatttac ccttaatatg aattactcaa aagataat 180  
 agagtaaact tctttatagc caatgataga tgacgatata taaaagaagt ttaagggaaa 240  
 agagaatgcc aactcatgtg ttatactggt tcaggcacac cctatgcgct acgtacagtc 300  
 tccaagcagc ccgcttgaga t 321

<210> 16312  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16312  
 tgcatccact agaagagaat aaacatgtga ttagaacttt gactgaaaat gttagtcagt 60  
 ttgtcagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccctaaa 120  
 attttgagag aaacgactat catttagtac taatttttgc atgaacctct gaagtatgga 180  
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagt cacttagcca 240  
 aaaagctgac catgtgcttg aatgattcat ccctggcacc cagtttgagc tgaatgaatt 300  
 attgattgat tgaaccttga gcctatacag tgttatctcc tactaccttg tgttacgttg 360  
 taggagagca tcatccacag gaagct 386

<210> 16313  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 16313  
 tgcttgtaaa gcaggtagg cgcacgccta attattttta atttttataa agacaaatgt 60  
 tataagaagt gaggctgaat tatgattcta gaagaagaaa aattaaagcc tttttttgaa 120  
 aaaaaaaagt taacgtttta agaaaaactt tgtaagaaaa ataataaatt tttaaaaaa 180  
 ctgttttaga caatgaaaat agatttcgca gaacataaag tattttcaag atgaaatgaa 240  
 attcaaacc cttatattaat ttaaagcaaa agataaatac aattaagaca tataagatat 300  
 aaagaattat actagtttat ctttaccact aaggctatgt ttaagttttg attaatacact 360  
 aagtttcac 369

<210> 16314  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16314

tggtgccaaa tgtcggcatg aagtcactcg tgatttatgt tctataagag attgtgttta 60  
 cagttccttg aacctgattg ttaattttac attgaagaat atgtggggat ttaaaaataa 120  
 taacacttgt ttaaagctta ttgagaaggt gaattcaata tcaaaatatt agcacatttg 180  
 atcttctgca acacttatag actagagatt agagattaat tcacatttcg caatcatggg 240  
 tagcaactct tggacagctt gtggattgat agaacaaaag taatgtaaag gcaaaaagaa 300  
 cttgactaga aacatatgtg atgaactaag gtctacgcta atactggcaa aaatgtcact 360  
 gttttttttt tttaaataat gcttttataa ccattctaaa aagct 405

<210> 16315  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 16315

tgctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgccaatcc 60  
 ttaccctcgg aagcaaaaaa agaataagagg ggaaatttcc aatcaaagaa aaagagaagg 120  
 aaaatttcca atgaaagcaa aaaagaaatg aaggaaaatt cccaatcaa agagtgggag 180  
 aaagcaaaaa aaggaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240  
 aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaaggaa gaagaagaag 300  
 gaaagaaagc tcctgatcaa ggatcgaaag aaaccagaag aaatgtgcag agaggtcttt 360  
 ggaccagaca atatctgaac cgta 384

<210> 16316  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16316

tcaagtgata cagacagtga aatcactttt gatgtgcttg ccacatccta tagagaacta 60

tgcataaaaa gtgagaagat ttttcagcaa gaagcacaac tgaagaaggt cattgcaaat 120  
 ctggaggctg agaaggaggc acatgaagag gaaatctctg aacttaaagg agaaattggc 180  
 tttctgaatt ctaaactgga aaatatgaca aagtcaataa agatgctgaa taaaggctca 240  
 gatgtgcttg atgagggtct acagcttggg aagaatgttg gaaaccagag aggacttgga 300  
 tttaatcata agtctgctgg cagaacaacc atgacagaat ttgttctctg caaaaacagc 360  
 actggagcca cgatgtcaca acatcgggtct cgacatcatg gaacgcagca gaaaaggagc 420  
 aaa 423

<210> 16317  
 <211> 165  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16317

agagcttttag tttgaatgca cacaatctga ccaaggcgca gaactttctt gagcacactt 60  
 tctatgacaa anaggagatt caactccatt tgcttagatc tcaatgacag gatacgagtc 120  
 aaggagacta tgctaagatt gtcacggtaa acaaatgggg ggggg 165

<210> 16318  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 16318

cttctcttct gttcactgga tcgggttcca ggatttgatt ggtaggttca gtaagggttg 60  
 tgttgatctg caccaagatg cttaatttgc gttgaaaaat tcattcattt gcgagactcg 120  
 gcatcggaat tgaaccagtt agttgaaagt tcaacgacta ctcaaagggt atctagagtt 180  
 caagctccac tggtaataag tcctttccct ccaatTTTTT tatctgcata ttagttttct 240  
 tcttttgaat agtataattt ttctccattt ttcagttgca gctttctttt ctttttattt 300  
 ttttgtgtgt ggataaaagg ttcgatttgc cagcgctgtg cttgagggtt tggttaactt 360  
 gagttcctat cattctctgc ttgtgtttgg aagagaggca gagaactaag ttgtaac 417

<210> 16319



<211> 372  
 <212> DNA  
 <213> Glycine max

<400> 16319

tagcttatat gatatttcat gatcaaggga atgctctttg attagccggt gtgtgtgact 60  
 gaaaatcttg atgaggatac ctcatcgcca aactatgtga aagctggaag atgggaaaca 120  
 acggctgtat gtgtcgggat aaacatgaca ccacttgtc ttagccctat tttagtttaa 180  
 gttgatcgag cacttgagta tacgtcgaaa ttattatact gcaaaactac attaatgcat 240  
 agaccaagtg aataccgtac gtgccattcg catattcttt ggcatatatt atccattctt 300  
 taattaaaca aatgccgaat taactaatca caatatcaaa ctgatgcgcc tagaagaata 360  
 tatattactt ac 372

<210> 16320  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16320

gcttcttcac aagtacttgc tggagaaaaa gataagttta ttatttgaaa tatgtttctt 60  
 ctacctaaca cattggtaag gatgtttaag ccgtatacaa ttgctggcaa tacatacatt 120  
 atgaaagaaa atcaatcaaa tgaccaaact gcttggaat gacacataaa tgtatcacac 180  
 atctattgtg ctgtattcaa gaaaaatcaa gcattctaag gccatatgat atcttataaa 240  
 ctcttctatc acttactga tgatgatgat tcgagaaagc gctttagttc tttgtagatg 300  
 actgaagggg tacagaatca ctttcatttg tgctgtcacg gtctttccca aaaatcttag 360  
 atgcattcaa tatctgtttc aatcaacata taatctatca cttacaaaca gtggaacatc 420  
 ata 423

<210> 16321  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16321

ttcttgcaag atggaagcaa agaaatctat caatgggggg tagaataacc ctcattaatt 60

cagtcttaac agccttacct atctatttgc tgtccttctt caagatacct aaacatgtgg 120  
 tgcaaaagat tgtatctatt caaaggaatt tcttatgggg aagtcaccaa gactccaaca 180  
 agatcccttg gggaggcgcc atttgacat gaatcactct tgaggcaaaa atcaaggatc 240  
 aaatggctca gggaaggatga cagtaacaca tgcttctttc ataaatccat aaattttaga 300  
 agacattata atgcaattca aggaatattc attgaaagta tatgggttca gcaacaaaaa 360  
 ttggttaagg aagaagctgt 380

<210> 16322  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16322

tgttgacacg cggagattta cgtcatcttc cgcgcacact agatctgtca tactgacatt 60  
 tgagtcacgc tgacgggcgg aaatacccgga gtggttatcc gtataaacat tcttttgctg 120  
 tctgtaagac aaaaagcctg atagcacgca gagactaacg tcgtcttctg catccttcgt 180  
 caatcgcggc cgacaagccc gttggcacgc ggagatttac gtcaccttcc gcgctcacia 240  
 gatctgtcat actgacattt gagtcacgct gacggacgga aatacccgag tggttatccg 300  
 tataaacatt ctttttgcta tctgtaagat gaaaagcctg atagcatgca gagactgaca 360  
 tcgtcttctg caccctttgt tccccgggg acaacaagtc agttgcatgc agagatat 418

<210> 16323  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16323

gagctttgac gcattctctc tgtctctcta tcccttctct caatttacac catgatgtat 60  
 aatagaagct atcaatattt gcttcttcgt tttcttttca actatatttt cgtagggtgga 120  
 aattatattg aaatcagaac agcatgcact aaacaaagaa ttgtacacac acaatattga 180  
 agttgcttta tccaaaccaa atatttcaa aataagaaga atttagtcga aaataattaa 240  
 tgagaaacta ctctatgcag tgagagtatt aactgcaag tccagatag agggatgac 300  
 tactacgcgt gctagcttta agagctatag ctactatgat ttctgattga tgaacagtgt 360

catgcatt

368

<210> 16324  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 16324

tgagatacaa tattgtacta agaaagtatg aatcttacct attaaattaa caaaggctgc 60  
tattaggtat ctcatctctt ggctatttca agtagttatg cgtaaagaca ataacaagaa 120  
gaatcaagct aagaaaatcg tcaatgtcaa ctcataatta attaaaacat taacaaaaca 180  
attcctacat aagtttacta attcaattta taaatatatt gcattttgtt aaagacttat 240  
caatcctcaa tacttattcc tgtctcgatt ataagtaaaa aaggacatat gtcacattta 300  
ttaaggaaat tagttatctt cattaaagtg tgcgagtttc aattaataaa tgagtttttt 360  
ccctaaatta tctttcattt aaacttgata tcaagcataa aaatggtttt ggtcatacta 420  
aatgaata 428

<210> 16325  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16325

atgatcgttg tgtgcatgca ttcttgtggg atttggtgat agtgattgtg ccggagatgt 60  
agatgatata ataagtacta ccggatttgt attttttatg ggtgattgtg tctttacatg 120  
gagttctaag aggcaaggca ttgtgacact ttctacttgt gaagccaagt atgtagctac 180  
aacttcttgc acatgtcatg ccagttggct aagaagattg ctggaggaaa ttcagttggt 240  
gcacaaggag agcacaaga tctatgttga tcatagatct gcacaagagc ttgccaggag 300  
tccagtgttg catgaacgaa ctaagcatat atatacaaag tatcatttca ttgtagagtg 360  
cattaccaag acagaagatt aattgact 388

<210> 16326  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 16326

gttcgattca ttctatgtac ccgtagtggt tcactttgtg tttcgtgcat tactattctc 60  
gttttgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120  
ctcgcctaac ttagaaataa aatcaatttc caccgaacgt ttgaattgta ttatccgtta 180  
acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
aagaggtaaa aataatataa taatcaaaaa gacatctttt agtaaaataa agcggaaaat 300  
caatcggacg ttttctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360  
tgaaattaag gctaaaatca actcgcttag tcaagctcgg ccaca 405

<210> 16327

<211> 211

<212> DNA

<213> Glycine max

<400> 16327

ttactcgccc ggatcttcat cgaacgcggc tgcttgctga tcggacctca gtgtcgaaaag 60  
ttatgaccat ttgaatttct ctagagcatc cggtggacaa atttgagcgt gtcgacatat 120  
tatgcaccct gagcaaaaat atctgtgaga agcgtgacc cattgacttt atcgagagct 180  
ttcgaagggt aagattgagc gtcttgaata t 211

<210> 16328

<211> 404

<212> DNA

<213> Glycine max

<400> 16328

tatactatat cgagacgctc gaatttaatt atcttatatc tcttgagaaa ttcaaattggt 60  
cgtaactttt tacacggatg tccgattcgg gcgcataata tgtcgagatg ctcgaaatta 120  
aacaacgaaa gctcttgaga aattcaaatt gtcataactt ttgacacgga tgtcctattc 180  
aggcaaatac catatcgaga cgctcaaaat tgaacaacgg aagctcctga gaaattcaaa 240  
tgcttataac atatagtgac actcgaaatg tccgattcat gcttataata tatcgatacg 300  
ctcgaaatat aacatgtaaa gctctcgaga aatctaaatg gtcataactt ttcacacgga 360  
tgtacgattc tgacgcataa tatgtcgaga ggctcggaat tgaa 404

<210> 16329  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 16329

ttcctccaga aacaacagcc ttacggacga acgaaccgga aggcccacct gggccagaat 60  
 gccatatgca cccccgcta tacaaagtgc accccctact aaatttctga tagagaagtt 120  
 tccgtaacat caccaaaatc tacgaaggac gcaccgatac ttaatgacct accgcagggg 180  
 cacaaatcca tgcggattag gcatatacac tgtgacagct acccaagcaa ttacggaaac 240  
 tcacggattg cacaaaacca cctattgccg actaccgaca aattactgaa tgtcacgggt 300  
 cgcgcaagcc tgcttg 316

<210> 16330  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16330

cacacacacg cnacaccac acaatgcgaa ataacaggac agtcactacg cacncgcgac 60  
 aacatccaca cncaacacaa cgacggtnnn ntttgattac atngcatcgc caancacgtg 120  
 acacaancna caaccaggcg agagagagcc accgaagaga gagccaactt tgactacaca 180  
 tgctagcaac gctactagga cactgcagac cggaagaatc cccatatcgg agaaccataa 240  
 acgcgggctc ccatgactac ctacaattac gaagtgtcga ccccaaacga caaaagcgg 300  
 gaaaggctga cttactgcaa caccgctgaa cagcccatga aaacctcaag acctccatat 360  
 atatcataga ccccgaatac ggacatcgca tccaatgcta cgcacagaca aggcgaaggc 420  
 acatcacagg tatgacactg aaacatacta gcacagacga agcaacaaaa aaggcagccc 480  
 gtcagacaaa cgaacagcat aatatgagac ctggaacaag atggacacct atacaaacaa 540  
 gcgcgctaca tacttctcg 559

<210> 16331  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16331

ttttcatgct atctttgcct tgcaaatctg ttgaaattgg acggaaggaa cgatcaatct 60  
acccttgaaa gagttctgac tagatgacat gatccatatg cgttttcacc atctcatgaa 120  
gaacacaaac tatttttctt actcattata ttcttaattg aaactgagcc tcgagctcat 180  
tagcatatct ttaatgcgtt tttctttgca cttttttaa atccattcgt acgttaatga 240  
ttaattgttc taaagaccac ttccacttca ctataaggct cttacacca tgggctgat 300  
tcgacctat ctactcgcc catcacttcc tgtctctata attttttct ttacccaaaa 360  
tgcgtcgaga tataaa 376

<210> 16332

<211> 367

<212> DNA

<213> Glycine max

<400> 16332

tgacactact caatactcta gctagcattt gcataatctg ctgggcgggc ctctacattt 60  
atcagagttc ttctacctga actcagccat ttgtgaaaat tatcccta atccatctc 120  
agaactataa tatagtttgc ggaactcgtg gaactcagaa gatgctcaac tacaatcctg 180  
tgttattata ctctaattgga aaggagagaa cctacaaagc gtgttcgga cgatgatatc 240  
tgttaatctc tttggatata tcccgaatct gagagagcgt aataagattc cttggagga 300  
cccatttctg aagaacgttg gtggcgcttc tcttgggagc ctaagcctga agattctgct 360  
ccttacg 367

<210> 16333

<211> 370

<212> DNA

<213> Glycine max

<400> 16333

tcttgtcaag gccccagcc gggacaagtg ttgtccgggc tgcttctatc aagttgtcta 60  
ggatggacat gctttttgta ttacaagcaa agtcagacgt gtcaagtga gggagtcct 120  
aatgttgaca actctaccat tttctaactt ttggagaatg cattaagga aaatgttctc 180  
gtttttcctt ttgtacagg cgaatgttgc gcacggcgt tacttttgca tacgtgtcac 240

tcgtggaatg ggcacgtact ggagacacgg tacgtgggtg agtggagctc catagtgggtg 300  
 caaaatTTTTT gggcatcatt tcagctcctg ccagttactg aagggttgca cctccactct 360  
 aaatggagtg 370

<210> 16334  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16334

ttgtaagcac aaatcagaag taggtcgctc taacttagag ggctgaagct gaaacacaaa 60  
 tttctcactc aaagatcttg catatagtgg ttgttcagtg acatctaagg gtttttttaa 120  
 acaatttttc aaataagcac ttggtgtaaa atgatgtag aaaaagataa tatgaatact 180  
 taataaaata atatggagag aagtataaca acttggatta tatcggttcg ctcaacttga 240  
 cctacgtcta gttctccttt actcactggg aaagggttcc actaatcaat aactaattac 300  
 atataagtat tctaatccgc aactcctgaa ttacaagta ttcttaacac cacttataga 360  
 atcttcctag actctccctg aatctaagaa cccaagtatt ttgaacacta agtcactcct 420  
 gtcac 425

<210> 16335  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16335

catcatgcac tccgagcacc tcgccatcgt taacctatgt ngcatcttcc tacanaaann 60  
 acaaagcagg ggnntttgag cgtgtgatgg agcgttgaan nccccnnggt taaaggggcc 120  
 ccagegtggc ccacnacgg gtggcgncctt cttattccac acggacacac atcacaaaat 180  
 aaaaccctct catatttctc ccacatctct tgccaaaata taataaattc acccccccat 240  
 aatccccaaa aaaaatccgg ggacacagcg gcgctctggg gaaacagggg ggggggacta 300  
 caaagagtcg ctgtccttgg cgacatgggt gctctacgga cgcacaaggg gggggcgccg 360  
 cgagacgtac ctttcgtggg ggtcctccca gtgtctttca ttggcgtgcg cgccggggcg 420

ggcgggttata ctgcctctg aagcgacgg tggcgggtctt atcgggtgggc ggggcgcccc 480  
 caatgaaacg agaggtatgt ttgcg 505

<210> 16336  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 16336

tatcggatta tggggcactt gtcttatgtg gtactatggg gcgatcagcg atggcgcaag 60  
 tcaactctcc cacttccaca agtcaaacat aaacacacca tccccagttg cccaccttta 120  
 aattgagctc acgcactccc acatagccct tatectcggt cctctcatca ccgggtcccc 180  
 atcaaacacct ccaagctttc acaatataca aacaattcaa tttcatttgt catgaaacta 240  
 ccctaaacca agaaaataga gtggaggcaa aaaactctgc aaaaaactca ttcaaattcc 300  
 acagttttcc ctactcacat accccaataa cattctcttc gttccgattc ggtaaccatt 360  
 tgatcgctt gaaaatttta ctggagggtgc ctagtacaga tatctacat 409

<210> 16337  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16337

ttgctttgtg taatcgatta cacttatttg gtaatcgatt accagtgact atttctgaat 60  
 aaatcaaaag atgcaactct tcaaaaagggt ttgactttt tcaaattgggt ttttaagtttt 120  
 tctaaaagtt ataactcttc taaatggtct tcttgaccag acatgaagag tctataaaag 180  
 aaaggctttg ttttgcattt tcaatttatt cattcattca atcttgaata cttttccaat 240  
 caatctctta cagtccttta caagccttga atctctttga acttcttctt cttcttcttc 300  
 tttgtaccaa aatctttcta aagttttcta gttttctaaa ccttgaaaac ttgtgctatt 360  
 catcttt 367

<210> 16338  
 <211> 407  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 16338

tattagagtt ttaacacact cttttaaca cactctccac tgttggtcct caattaattg 60  
agaattataa aatcagaata atgactcatc atatgagtag tgggacctgc caaatttggtg 120  
attttaaga aatttgagcc aacaaaaaaaa agtggtcaag agaatatgtt agagacagtg 180  
ttgctaccat ttctctgttt aggaatggtg tttgtagtta ttagtgaaaa tagaaataga 240  
aaatattttc cttatgtcaa acaggcttct gcattactat ttttagtttt tacaacatta 300  
tgatagatca ttatatattt tttctttctc taaaacaaat gatttattta ttgtcttgng 360  
gtggtgtata taaaaactga tcaacacatt ntacttttct ttttttg 407

<210> 16339  
<211> 301  
<212> DNA  
<213> Glycine max

<400> 16339  
gagcttgccc aaaaccaca agttttaagt ttcaataaat tacatattac attacatttt 60  
ttaagaactc ttcataataa tctatattta caaccctttc taatgcacct tgaaaaatac 120  
tcaggaacaa agatattttt aatgaagata ttattattgg aataaaaaaaaa catgctagat 180  
aaacacaatc ggtatacaca taagttcaga atggcaaggg acaaagtata atcttcacct 240  
gtttgtgacc tcaaactaaa actcataagt gataggaaat cagatggaaa atatataact 300  
t 301

<210> 16340  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 16340  
tcctcaattg tttagcttga ctccatcttc tggttaagct ggaaatgtcc aaaggcggca 60  
caataattct cctcaaacca gccaaacaga gaacctctct gataggaaat cactggatcc 120  
tccttcaaat aacgaagtag caagttcagc agaaggtatg ttttgtcatc ttaggccttt 180  
tgtctaaatg ttttggtaga gctataaatc atatttgagt ctccacccaa tagcttatgc 240  
atttgggaga cttggctggt gacatggtat caaagcctct ctgaccaatg gattaggatt 300

tcaatcaatc cttgcctcca tgatccccct tcttcataat tcaattaagc ttcaatacaa 360  
 aggaaagtga gcttgtgcac catccatggt taaccttaaa ggactcttgc tgttatgtta 420  
 a 421

<210> 16341  
 <211> 148  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16341

ctcgtaccgc agatcctcta atcgacctgc tgcattctgt ttacatctta tntanttang 60  
 acccactatc ctagaacata catatctcta tgcccctaac ctacggaatt aaaaataaac 120  
 ttacatgctg attgtgactg aatttgtg 148

<210> 16342  
 <211> 178  
 <212> DNA  
 <213> Glycine max  
 <400> 16342

tatggatgga atacttactt ggcggtgacg aacttttagtg tcgaaaccaa tcaccaaattg 60  
 cgagaaatga tgaccctaag gctggaaact cgttaatcgc gaggatatgg ctcttgcaac 120  
 gtggaaaaga cgatgctgaa tgacaaaact tcccgacttg cgacatctat atatattg 178

<210> 16343  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <400> 16343

ttcttgccct taagttgacc aaatctaata ccaccgacaa ccgtgtgaag ctagtgcacc 60  
 tcgcatacaa aggcttctta gaatcaattt gtaattgctt atacaaaggt gcatgtgctt 120  
 gccaaaaatc gtcttgcca agatcgtgta tcattgtctt tatatgattt gggatgtctt 180  
 cattaaccgc gttagtatga gagcctattg ttatatatgt tgattcacca tgcgaaatcc 240  
 attttgtgaa attcagaatt atcccctcac atataagatg tgatcttatg tcattgagtg 300

actgtcgtct cccattccca catttgacac atggacaaaa atatttttca ccataaagtg 360  
atgcatttcg ttcagc 376

<210> 16344  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 16344

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgt cgatcagaat 60  
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120  
gtcaagttga aatatggaag taatcgtctt gcaaaattgg ggcaaaagat gagtcgagtc 180  
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
tatcctgtgt aaaaattcgc aatacttcaa ctgtacacca ttcgcataca tacatgcttt 360  
tcattgcttg cattgctcat tgcattcttt ccttgaaaaa taaaataaaa taaataatg 419

<210> 16345  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 16345

ttcttaggga tggaaatactt acttgttggt gatgaacaaa agcgcggaac ggaatcaaaa 60  
aatgcgaaaa gtgatgaccc taagactgca aactcgtaaa tcccgtaggt atggcttttg 120  
aaagggggaa aagaagtttt tgaatgaaaa aaaacgtccc ccctttcgtc acttttatat 180  
tttggtgcag aggtggctcg ccagggcgag ctaacctgca cttttttttt tttttttttt 240  
ttttttgagg ggaacattta aacatgcccc tcccttctca tggattagca tcttgccctaa 300  
cttgaactta cttagggttag aattaggcgt tgattactta ttttattatt gctatcattt 360  
ttttcaaata gtaaaagaaa 380

<210> 16346  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16346

tggagaggat gcttcaatgg aggataagaa agagtgagag ttagagagag gggggagcac 60  
 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120  
 cattcatcaa agttacaaca agtgttactc atgcttgtat ttataaacta ggtagcttcc 180  
 ttgagaagtt ttctagagaa aactttcttg agaagcttct ttgagaaaac ttccttgaga 240  
 tgctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300  
 cttagaaga ttcctaaaga agctagagct tagctacaca tacctctcta atagctaagc 360  
 tcacctcctt gagatgagac gctagagctt agctacacac ccnctataat agttaggctc 420  
 ac 422

<210> 16347  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16347

ttgttgcgag cgcnnacctc gtccttcagg agcatgcctt tgacccatga tgattccttt 60  
 cacctcttca cgagcttgag ctactattg ctgccctata aagccctca aaactttgct 120  
 ttggtcgagt tcttcctttc gggccttcac ggtttctcgt tccaaggctt catcggtggc 180  
 catatagacg tgccttagtt catcatactc ttttcagact ttgatggcta tgaacttgaa 240  
 cttctctttg actaccggg ctctttcaag ctctgccttt acggcttata cctcatcact 300  
 atcttgtgaa gctataagct catcatctct catagtctgt agatttggga gccaatccaa 360  
 tacttgtgtg cggac 375

<210> 16348  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16348

ntgagccaaa atcctgactc accataaacc ttattctctg aagcagaatt tataaaaaga 60  
 aggaaaggat attcccaatc atagagaaag cataaaagga aggattggat attcccaatc 120

aaagagtggg agaaagagaa aaaagaataa gaaaggaaat tcccaatcaa agagtgggag 180  
aatgaaataa gaaaagaaag aaatttccca accaaagaat gggagaaagt aaaaaagaag 240  
ctcctagtca aagaaaccag aagaaatgtg cagagaggtc tttggaccag acaatatctg 300  
aacagtacag aattgtcacc aaatgaacat aaaaagaagg aaaggaaacc acgacctata 360  
atggtcttct cccttngatt accaaccaaa atcccgtgcg ctagcgac 408

<210> 16349  
<211> 201  
<212> DNA  
<213> Glycine max

<400> 16349

tcaaataatt gaaggtctac ctagtacct tgaattatta tcttttttct taagctcatt 60  
tacctctgcc tggtagtggc tgggattgag tatgcttatg tgacacggct acacagattg 120  
cgaagttaat atatggattt gggctgcaga tgaatgattt cactgataag ccaatgataa 180  
aggttctgtg gagatgtaac t 201

<210> 16350  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16350

tcccagatcc gatcatggaa ggacttggtt actgttctta ttaggcagta ccagtacaat 60  
acggacatgg ctctcgatcg gaaccagctt cgggggatga ctaaacgaga gcatgagtcc 120  
attaaggaat atgccagag atggagagat ctgcagccc aagttgtatc gccacgcag 180  
tcaccaccgc cccaacatgg atgaaagcac cccaaaatat ccaaagctca taccagccca 240  
atcccccaaa ttttttaatc cgagccgaga attccctccc gactcaagta aaaggaccac 300  
ccgcagcaga aagagcgcca gcccgacgca cagctccagc cgcaccccggt ctagttaata 360  
atacagcccc cggcgtgacc tatanatatg cacagcaacc gaaagacaac ttcccttcta 420

<210> 16351  
<211> 435  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16351

gcagatcnnn ttgaagcttt gattcattcg actaccanng gcgaanncaa ctcgtactcg 60  
ggatcctggt gagtgatccg gatgatgctt ttttatgtca tgctttaccg aatggattcc 120  
ttgagcctca ctccatacac aatgcacttg atatgcgtgc tgaatgtcag tgttacattg 180  
aaacatgggt gaaggaatcc caaagagaag tctacctagg agcttacttg aatccataag 240  
gtcattttatt gcaatgggtg tacgaaaaat aatgtgacct tatgaacctt aatattgccc 300  
attatagggc ccatggcacc tggtttgctt atgtcctaag aaggaatggt gctaaattgt 360  
tcgcccctaa gaaccggatt tcaattaact tcaactacaag ttagtttaat ttcactaata 420  
aggatggaag ttggn 435

<210> 16352

<211> 365

<212> DNA

<213> Glycine max

<400> 16352

tggacacttt caatatgatt gtcttacgtt gtattagaaa ccattttatg ctgagatgga 60  
ggataaagag gaacaagagg atgagctctt gttaataacc ttcatagatt gcatacaagg 120  
gaagaaggat gagtgggttc tagactcggg atgcggcaac cacatgagta gtaacaagga 180  
gtggtttctca gaattggatg agaactttcg gcacaatgta aggcttggtg atgatactca 240  
catatctgtg aaggggaaag gtagtgtttg gatggttgtg aatgagatta tacatgtaat 300  
cacacatgta tattatgttc ttgaactcaa gaataattca tcgagtatat gactgcttca 360  
agaaa 365

<210> 16353

<211> 354

<212> DNA

<213> Glycine max

<400> 16353

ttcttctata gaagggtcgg tcctaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgcttttctc 120

aaagaaaagc ttactaaggc acttggttcta gctcttcttg acttttctaa aacttttgag 180  
 ctagaatgcg atacctctag agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300  
 gagctttatg ccttaataag agccctccaa acttggggaat atgaccttgt ttcc 354

<210> 16354  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16354

tccactatac tacaaattgt agaatcatat tatgtatcca ttctctggtg ctcgataaga 60  
 acatttatac tcaccaacat acaattctcc ggccataaaa atcttaaggg gaaaatatat 120  
 atcagttata ttagcactgc ccaagttgtc agtatggtat tcccttagca tgcataagtc 180  
 cccgaggact ccaacaataa attttgatcc agtccctaaa acatggtgct ccctaaatgg 240  
 gaaaccaaag ggggtgttcag catttcatta gcaaataatt cagcccattt aaaataaaga 300  
 aaaggaaata aaatctaaga aacaacagaa aacgaggcca gtgtatgaga tataaatgca 360  
 gaataaaggt ggcatcatcc aatatgatta agatgagcca tatggattaa ctg 413

<210> 16355  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16355

ttctttaaat gtgtctaaat gaccataaca attgataaga tgctgctcta aattcttaac 60  
 catttggaact catcactaac tattcaattg ccttaagtga ctaagtga aaacttagc 120  
 caaagaggac atcgctctca tattctactt caaccagacc aataattaac actctaactt 180  
 gactggacaa tagcgaagac agagttgagg actttaaatt atttttttta tatataaaac 240  
 tgatacaact agcttcaaag cttgagagac ttatgtacta ctggaacttg agaagccttt 300  
 gtactctgtg atcgaccaag ccggcaactc acatttaaag aatctagtgg ataa 354

<210> 16356  
 <211> 418

<212> DNA  
<213> Glycine max

<400> 16356

tatgctacaa acatttataa tagacccccct cagcttataa accaataaca acagaataat 60  
tatgatcttt caagcaacag atacaatcca gattggagga atcatccaaa tctgagatgg 120  
acaagtcctc cacaacaaca acagcctgtc cctcccttac aaaatgttgc tggccaagc 180  
aagccatatg ttcctcctcc aatgcaacag cagcagcagc agtcacaatt gttagtgtt 240  
agcactactg agtttaaaaa ggttggtctaa gattttgtta aaacataagc acttagacaa 300  
tgaaggaaaag ctggagttgc tgcacatgat gaccaacgct atgtcaagga ataagatcgg 360  
gctgcataat gcacaaggca agataaagtg tcaagtgatg aattgaagtt gaacgatc 418

<210> 16357  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16357

atgcggttgc atgctttctn tgaaagcgga actcgaaaaa acaagagtga tctacgtgaa 60  
gctaattgacg gcattcacta cagtcatgat agattgtgat gagctgagag gtcaacatga 120  
ctacggttga atcattatag cgggaaacaa aaagggccccg aaaggaagaa tagagcagga 180  
acaaattccg agggaccgag agggaccagt caaggatgga aagcatgggtg ttagaggata 240  
agttgaatgc ttgtcaaagg tcgaagagaa gcttgatgga acggttgagc acaacaaaag 300  
aaaatatgtt gacaattatt gatcaatata aggagaaggt gaacttagct actagtcag 360  
ggtagaggct agaggatgaa catg 384

<210> 16358  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 16358

tttccctcac tctcacgttg cttttttctt cttttctcct ccaccattga agcctccatc 60  
aaagctccaa actttactca ccatttctac tccaaatcgc aaaaggaagc cattttcgga 120



gtcgtgaagc gcattctcaac gttgtgggac ttcaaatttc aggtttgggt agacttcttc 180  
tcacatgatt ttcatgggta ttgggtgttt gggagatatg atgggtagtt ttactaggtt 240  
tatgccttat ggtagttatt tgtgaaggaa tttgttgaaa gcatgctaaa attatcatgt 300  
ttgatgtgag tcaaatttac ccattctgtt ttaggggttt atgatgatgc tttgtgatgg 360  
ttgtgtgctg aaattgatga tagaaaactg atagagatga agggtagagc taaccgag 418

<210> 16359  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16359

ggagagacnc gtggancctt tgaatgcatg cattgccaac gcaagtacat ctagtccca 60  
gcgtcgtatc atacatcagg ctgatgcatt cttatttgat gctncagtgg atctaagggg 120  
cttacgttac ataatacgcc acccagacca caatacaagc tgaaagtgtc tactctgttg 180  
cacttgggtca gaaagaatcc tattgatagg atctcctagt acctaacgag caacaatcgg 240  
cacactcaat cgtgacgtgt ctccataat tatatatccc cctctttacc gcatttgcct 300  
tacaactatg tgccattgaa acctgacatg actcattaca atcaatgtga tagtagtcta 360  
tccatgtgct gtccatttga acacctcaaa gcatatctaa cactgctcat atacctgcag 420  
aatgctcata tcgtttcttc aatacaggac tgaaccatca ccg 463

<210> 16360  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 16360

tgtgcctctt cacgtctgtt tatgaatgta gcatatatga tccaaagacc cttagggtgct 60  
ttgtgatgg cttcttccca ttccaagctt caattggagt cttgtctttt acagactcaa 120  
ttggacatct gccgagtatg taaacagcag tgtagactgc ttcagcccag aatgtgttag 180  
gtagtcctt ttacttgagc atcaatctag ccgtctgcat aactgtgcga ttctttctct 240  
cggacactcc attttctga ggagaatatg cgactgtaca ttgtctctca atgccttcat 300  
cctcacagaa tctttcatc tcgtgagagg tgtactcttt ggcgcatca cttcataata 360

cttttatccg ttttccactt tgattttcaa caaggacctt gaactttt

408

<210> 16361  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 16361

tttcttcaac atcagaccac ttccaggggtg ctggaactac ttcacatgga cttgatgggg 60  
cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatttc 120  
tccagattta cctgggtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180  
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taggagtgc 240  
catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcattcact 300  
catgagttct ctgcagccat tacaccacaa caaaatggca tagttgaaag gaaaaacatg 360  
actt 364

<210> 16362  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 16362

ttccgctcgg atgtccgatt catgtgtatc acatattgag aactcgaag ttgatcaatg 60  
gaagctctcg agatattcaa atggtcataa cttttaacaa ggtgggtctga ttcaggcgca 120  
taaaataacg agacgtttgt aattgaacaa cggaagctcg agagaaattc aaatgggtcat 180  
aacttttcac acggagggtcc gactcaggcg cgtaatatat cgagatgttc gtaattgaac 240  
aacggaagct ctcgagaaat tcaaattggc aaaacttttc actcggatgt ccaattcagg 300  
cacatcacat atctagacgt tcgcaatgga acaacggaag ctcttgagat attcaaattg 360  
tcataactct tcaactcgaat gttcgattca ggtgtatcac ac 402

<210> 16363  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16363

acgtttcttaa caaatggcat gcgaagtggg tggaattcct agagcaattc ccttatgtta 60  
tcaaacataa aaaaggaaaa ggtaatatgt tagccgatgc tctttctcgg cgatcatgcat 120  
tactttctat gcttgaaaca aaatcgattg gacttgaatg tttgaaaagc atgtatgaaa 180  
atgatgaaac ttttgagaa attcttaaaa attgtgaaaa cttttcagaa aatgggtttct 240  
ttagacatga aggctttctt ttcaaagaaa acaaattgtg tgtgcctaaa tgttctacta 300  
gaaatctgct tatttgagaa gcacatgaac gaggtttaat ggggcatttt tgggtccaaa 360  
atactctaga tacattac 378

<210> 16364  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 16364  
tcattgccta acaagccaac ttacaacagc aagcttcaag agactcagca taaggatgca 60  
cagaccaaag ttgcgtatgt aaaaaattg tatgaccaag tgaagggtgca aattgcaaag 120  
aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggg acttgaaccc 180  
ggtgatgatc ttggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240  
catgaaacag gccatataca gtctaaaggc ccaagtggag 280

<210> 16365  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16365  
ggtgcttaag cttcttcaac tgcacaaggc tcttaatggt tgaagagtat ccttgtggaa 60  
ccttcacccg acgaagacac tgacaaaaac ttatcttctc ctttttggac aaggatggc 120  
aagctagggg caagtaaatt ttcttcccat tagaccttgg atgcaactgt gatcgatgc 180  
ccatatcagc tagatcttga caggtattga agccatcctt catcttgctt tgaatgttaa 240  
ggagagtccc aatcacacta tcacaaacat ttttctccac atgcataaca tcaatacaat 300  
gtctaacatc aagatcagat cagtacgaga gatcaaagaa tatggacctc ttcttcata 360  
tgcaactctt acttttatc 379

<210> 16366  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16366

ctgacatgag tcatcaaaaag actataaata tgtgaccatg gaatggaatt taagatgata 60  
 tccatcatct atctttcaat cttctctcac acatcattca gatatctttc aactctttct 120  
 acaaaaggnt ctgatgcttt ttctttgcat ctttctaaaa gttttgatca aaactttctc 180  
 ttccaataaa tattgttcag aaacttgtgc tattcatcgt ttccattctc ttctcccttt 240  
 gccaaaagaa caaaggacta atcgctgag aatttttctg gatcgttcct ttcccttaag 300  
 caaaagattt caaaggacta gccatctgag atatcttttg gttccctta caaagattca 360  
 aaggactaac cgcttgagaa ttctttgtcc aacacattgg agggatatat 409

<210> 16367  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 16367

tatcttttca tttggttgct ctgctacagt cccaagcat tagagagaaa gcgaaggaat 60  
 ggaagcctca atttcattgt ctccatgtaa ggggtatttc tctctctaca ggcattcatt 120  
 agcaaatccc aatggtatga acctacgaaa ttgagtacca taaacgattt ctgagtctca 180  
 aaataatcca acggttaacg agtttaacat tgaagtgtta ctaagatgga tttgggtata 240  
 tgccggaaag agattggatt attggagagg aagagagaac acatttagga ggaagagagc 300  
 ataagaacat atcataagtg taataattga tcgaatatatt atctatttat aggtcgggta 360  
 ctctgagctt att 373

<210> 16368  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16368

ntagtcaaac aaaataatcc agatatgtca aagaattgng tgttgaaaaa gcacaacaag 60  
 actttntgtg attagtttaa agatacaatc tttgtagatg agaatgcttc aaaaacatta 120  
 agaaagctag cagatgggcc taaaagaaat gttataaccc gacaaggata caacataaac 180  
 aagtattcat tttacacaaa agcacaagat gacaaaagta caatgcagaa caacggggtc 240  
 accctaaggg ctgaatctca acacttcgca acttttgttt tgtaaattac agtgtagttt 300  
 acaaaagcaa aggtgaaagg aaagatattg agctggtaga ggaggaagag ccatagattg 360  
 gtgctgattg ttctggagca acctctaata aatctgagat ttataaggag gaagcacata 420  
 ata 423

<210> 16369  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16369

tggagtgcatt tcttgctcta gaacacaatg tttgcttaca ggcaatggaa gaaggtcaag 60  
 aggtttctgaa agtaagaacc aaaacataag atcgcccagt gaggtaaaat tgtcaagcta 120  
 atgacgttaa agaagcgctt cctgggaggc aaccagttt taatttctgt agtttttgtt 180  
 ttcatgcatt agatcattgg gaacttgctg cataatctgt acataggagt atattagcct 240  
 atctttgaat gttaaacata agggtttcaa tttcttgga aaaggactga aaaataactc 300  
 agaaaatatt ttataaaaaa atactcctt cgctaagcgc aagtctcaca ctaagcgcatt 360  
 cattattcat gcgctaagcc atgagtct 388

<210> 16370  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 16370

tgttggtgct gctccacaga gccctcgga acttggtcca tccgtgctct tccctacgag 60  
 ccctcttggt ctgttgctcg aaggctttgg ttgttgctat atttatatct ctgagttcgg 120  
 cattctcctt tcggattttc agagttgctg atttgaacct ttctttgact gtttgggctt 180  
 gctcgagttc tgcctaagg gcctgcacct cttcgtcttc ctccggtgoc tcaacttctt 240

cccttttagc gggttctcaaa ctcaggagcc aatccaatcc ttgcacgtgg gctttcaacc 300  
 acttacggta gccactgatg ggcccattgt taccgcccct gagttctttg tccttctttt 360  
 gcaccacctc ccatgccttg cggaccttct gaagtgtctc catgttggtc ttattgaaa 419

<210> 16371  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 16371

ttcttccaca acatccaagc aaaacaacat tcaaacagca caagctatca tagccaagca 60  
 aaacagagca aaggcagaaa actctgctca acacatcaac caaaatcaca gcttttctca 120  
 cttaaagacc acagtaacaa ttccttcgat ccaatttggt aaccgttgga tcgactccaa 180  
 aattttactg gaagtctata gtgcataagc ctacattgtg accgttgga tctactagca 240  
 tacatccaga actcattttg tactactctt tccacagcca accacacaca agcatttttc 300  
 tgcacttggt caaaattctg ctgcacaatt tcacagcaaa gattctgcat aagtgcagat 360  
 ttcggacatc acact 375

<210> 16372  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16372

ntgctatctc ttctctccta acatcatggt taatttccat tccgattcct caagttgtgc 60  
 atacatactt gcaatttggt tgttgctcgg caaagaaagg ccaacaaatc ataggcacac 120  
 ctgcagatat actttcaagt gtagaattcc aaccacaatg ggtagaaag gcccactg 180  
 atggatgaga aagcactttc tcttgaacac accaacttgt tatatatccc ctgtccttga 240  
 tctcatcaaa gaactcttgt ggcaaagata tagattcacc cattactaca tctggctctca 300  
 ttatccataa gaaatgttgc ttgctatttg ctagtcccca agcaaattct ttcaagtgat 360  
 gctctgcat caccgttata ctcccataat taacatatat gactgagtta gggtccatt 420  
 tgtct 425

<210> 16373  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16373

atgtgcatgc nttctttctt agcataaaca acacttacta gaacagccca tccgggcacc 60  
 gcgttttcat taaaaatgag taatgcaaca cataattaac tagaattttt attaagaaaa 120  
 atcaaatact accgtgtgag atgaacaatt tataaaattg accaaaaaca tgatgaaatt 180  
 ctgaatttat tcttttgggg accacttatt tgattttgaa gtatgctctg ccaaactcat 240  
 ctcatccaat ttacttatta gactaatatc ttttttgt 278

<210> 16374  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16374

tctttattta tttatatata tatatatata tatatatata tatatatata ttttcctttg 60  
 gcggatcaaa ataagtaaaa aatattttga gccttgtgga cgagattcta gagggtaatt 120  
 tgaagaaaaa gatcattgta aacagttgta gcatttggtg ctagagaaat gattatttgg 180  
 actcaccagg ttacttagag cagacttggc tttaactttt tcagacagct tcaaattaat 240  
 tccatttttc attatcaaat tgatatgaag cacatgatca aatctttcag tttttattat 300  
 agtacagaga ttagtttcac atgaatggat gttcttttta atataaccaa tgatttttat 360  
 tagatatatg tttcaaagtt ttaattaaaa acatcaacat gtcattattt attag 415

<210> 16375  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16375

tgcttttttg gattcatttc gaatccgagg gctagcttca tcatataaat tctttcgtga 60  
 tcaacccatg tcatcaaact cccagcgga ttaaagacc catggcatca ctctacgacc 120  
 ttcaatcaag aaagtttcac ttggtcatat accaaagtgc aacaatccat tgccatcctt 180

caatggtgta tacgattggt cccaaggcct tatatttctc ttgctgtgca aagtaatcaa 240  
 tgttttgaac aaaaaaagg gggaaaaccc tatgatcaat atttcaatgg attgattaaa 300  
 tgtcaaacga ctccattgta gtcactctaa aatgttcaag tgactgaatc agaccgaaca 360  
 tacactct 368

<210> 16376  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16376

tcaacatgaa gcaaccagct cacttgggca agcatgttac ttctgaacta agccaccatc 60  
 tcgttgaggc gacctgagct cacctgggcg agctgggcgg caagctctc ccctattttg 120  
 gctataaatg ggcatgagag gctgagggga aagagttcaa cacccttagt attcagattt 180  
 cacttaaaat tagtgaggag aagaagaaag aaggagaaaa tcaaggccga ggcacttccg 240  
 taacgcttcc gtgacgtttc cgtgaccaat tccatgaacg ttctctgtcg ttcttcatcc 300  
 attcttcacg gttcgtcgat ctttaactgg ttagtttttt atttcacagc tatgaattca 360  
 ttctatgcat cgtaggggt ccattcttgc attgtatggt ttcattctca tctcgt 416

<210> 16377  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 16377

gctacatggc atgatctaaa acccgcactc agcgaccoga gccccgaagg gttttccctt 60  
 tttcacggaa cgggtcttgg ccacgccaca ttcgatctgt tccgacttcc taccctacag 120  
 ggaattttac ttgatgcac aaatgcccac cgagcataag ctataacgca atcgatgaga 180  
 catatacaaa gatatggcac atttacccca taggcgcctt taaaagtcac caagcttaat 240  
 ctagggaagg gattacttat ccctaaatac agtacaattc tgtccgaata cgcaagaacc 300  
 tctcctaaag ttacatcgcc accctagttc 330

<210> 16378  
 <211> 411



<212> DNA  
<213> Glycine max

<400> 16378

aaactcagct ctgatgcccc cttctctata ccactgttt atatccaatc tcaggctcct 60  
caaggtattg gtaagagcaa ctccccccca tccaccctgc acatctgaga tccaagcctc 120  
tttaatcata caatggtacc ctttatgttc aagccaccag tccaccaccc taaaaggctt 180  
agggcccca tccaccatct ttgtggccaa gaagatcggg caatgatccg aataatctct 240  
ttgaagaaca tgccgagaag catcatgcca caaggatagc catcgatcag acaccatgaa 300  
tctgcctagt ctgctcttgg cactgccatt gggcctaaac caagtgaaat tgcttccaaa 360  
acatcgtatg tcttgagct ccatctcaaa tatccagaca ttgaactccg a 411

<210> 16379  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16379

gggatccttt aagtcagtgt gttgcacgct ttcttgcaag aggaatgtgg aacggtgaaa 60  
cttcctact ttgttcgttg accacagagc ggtacctgga gatatgtcgc gggggtcagg 120  
agaccttggt gaggtcctgt ggggtgcttt tgcccaaaac gatcttgacc aatcccgacc 180  
cttccggggc ataagcagtc ggtgataacc tgtgatatac ctaaacaggc gagctgctgg 240  
catgtccccg ttttaagaag ctagacctca tggcttggat gcttgtgtgg agactggcca 300  
nccataagtc atgagtgaga tgtgggatat ggcctctg 338

<210> 16380  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 16380

tgttagaact atcatcacat gatgctttat tggctctgaa taagttgctt tctaagcaac 60  
ttgagatttt aacagaaaca cttggtaagt tgccaactaa actgtctatt ggtcaacctt 120  
cacattcttc tgttttgcaa gttacaagtt gtaccatctg tgggtgaggct catgaaatag 180

gccaatgtat tcccgttgaa gaaaacactc aagaaatcca ttatatggga aatcaacagc 240  
gacaagggtta taatcaagga ggattctcaa gcttccagca gggtccttat aatcaacaag 300  
gacagtggag gtcacaccct agtaattagt tcaacaaaga ccaaggtgga ccttcaaaca 360  
tgccaatcca acaagggcct aacattcttt acaggactac taagctagag gagacttt 418

<210> 16381  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 16381

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ttgatgacgt gccattagt tggacacgtc agatgataca tgtatgaaat cacgtcataa 120  
gtatcaataa cattacgagt cacatggatt ttttatattg aatttcattt aataaaactat 180  
tttattaata agcattttgt tgggttgccg aagatttgaa ggtttctgga tttgggtgct 240  
gcgaaagtac agattttgtt ggattttggg gatagagatt gacgtagcgc tgcgaggggt 300  
gcggaatgat gaagagatct cgacgatggt ggatgaactg gtcgaggggt gtaaccgcct 360  
ttacttaatc 370

<210> 16382  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16382

tgctcgtctt gctgatattt atcatgcata cttttctgat gatgaccgac gaacaatgag 60  
ggatcaactt gaaacttatg tgcttcaaga gagaagaaat cttctttttc cacttgtgaa 120  
gatgttcaaa gtttggctat gaagatgggt caaactgaga aacatttggt atttccattg 180  
gtttataaac ttattgagct agctttgata ttgccggcgt cgacaacatc cgttgaaaga 240  
gctctttcag caatgaagat tatcaagtct aaattgcgca ataagatcaa cgatgtgtgg 300  
ttcaatgact tgatgggatg tgacaccgag cgggagatat tcaagtcgct cgatgatatt 360  
gatattattc gaacatttac cgcaaagaag tctcggaaag gacacttgcc tcgtatttta 420

<210> 16383

<211> 253  
 <212> DNA  
 <213> Glycine max

<400> 16383

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 ctcaaacgtt atgacccttc gcatatctcg agagcactct ggtgttcaat ctacgagcgt 120  
 ctatatatga gatgcgcctt ggtcggaccc cccagtgcaa acttacgtcc acttgcttca 180  
 ctggagagca cgcgtggatc caatgccgat cgtctacaca tgctatgcaa gtgattcgcg 240  
 ccttcgagtg aaa 253

<210> 16384  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16384

ntgcagattt ggtcttcgct cagtgaaagg atcgatgtgg gtctgaaaaa aggcaaattt 60  
 gatcatccta ctaggacgac tgagaaaact ggggcaaata aagaggggtga ggatgagggga 120  
 gaaacccatg ctgtgactgc cattcctgta cggccaagtt tcccaccaa cccaacaatg 180  
 tcattactca gtcaataaca aacctctcc ttaccacca cccagttatc cacaaggcc 240  
 atccctaaat caaccacaaa gcctatctat cgcacttcca atgacgaaca ccacctttgg 300  
 cacaacccat aaaaacacca acaaaaagga attttgcagc agaaagcctg tagggttcac 360  
 cccanattcc gttgtcatat gctaaacttg atcccatatc cactcaataa 410

<210> 16385  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16385

tctttcttta agataaaactc ttttctcttt gtctctctca actgatcttc attcttcttt 60  
 ctcttttcac ttatgggtctt cctttatctt gcacaaattt tgcggtctct ccattgggtga 120  
 tgatcatgga acgctaata ctttaattaat ccatggatcc actccaagca aggctgaatt 180  
 tgagttctga ttttaatactc taaatctgtg tgaatgttca tctttttctt caatcctata 240

tttgattttc gagattatga atatacttac gattgaaaat acattagggtt atggattcat 300  
 ttcctaattg cagaatttaa acacaaattg atcggatgat attctaact aattcgtgat 360  
 cacaatg 367

<210> 16386  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 16386

ttagcttctt tacgaatctt cttaaggaag cttttcacgg aggtgagctt agttatgaga 60  
 ggggtgtgtg taactaagct ctaccttctc aaggaagttt tctcaaagaa gcttctcaag 120  
 gaagttttct catgaaagct tctcaaggaa gctacctagt ctataaatag aagcatgtgt 180  
 aacacttggt gtaactttga tgaatgaaag tcttatgaga cacacttcaa agttctactt 240  
 ctccccctct tttattcctt caattacgtg ctccccctc tctctttctc tcctcttttc 300  
 ttttctcca ttgaagcatc cttccaagct tcttatccaa ggctcatctt ggtgggtgaag 360  
 ctccttcttc catggcttat tccctagtgg atggcgctc ccttctct 409

<210> 16387  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16387

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 gtattaaaag cttctcatcc ttagagtgtg cgcccatctt gtggcagtac atcttgagat 120  
 ggtttttggg acaagtcgtc cttttatact tgacgaagtc cgacactttg aactttgggg 180  
 gaataacaac atcgggtact aagcaaagat ccgtcatgtc tgcgaaacaga tagtcccaa 240  
 atccttccac ggctctcaat ctttctcga ggagatcaag cttcctcttt tcttcggttg 300  
 ccggggggcg tcttccgtg gacaaaacta ttggttgtgt cgcgatgttg ggttgaggca 360  
 acgtgctggg tgcc 374

<210> 16388  
 <211> 424

<212> DNA  
 <213> Glycine max  
 <400> 16388

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tgcaaaatgg aagcaaagat atctctctat gggtttaaga ataaccctca ttaattcagt   60
tttaacagca ttaccatttt acttgctgtc tttttttaga atccctaaaa aagtgggtgca  120
aaagatagtt actattcaga gaaattttct atagggaggt gattttgagg ccaacaagat  180
cccttggggtg aaatgggaca caatttgtct tcctaagaac aaaggggggt tagggattaa  240
agacttgatc aaatttaatg aggctttgct tggcaagtgg ggttgggagt tggctaataa  300
ttagaaccaa ctttgggcaa gaattttatt gtctaaatat agcggttgga atgaatagct  360
ctctggtaga aacagtagtg atttctctca ttgatggaaa gatctaaaga ttgtatttca  420
atac                                                                 424

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<210> 16389  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16389

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attggaagca aggtgcagag tgaatgcaag gaatggggaa gaaaaatgct taatggagag  120
aaatggtaac tacctaaggc agttacgctt ctttaccttt tggcagattc gatccattct  180
cttatcacat agacttgata agcgagccta agtgatgttt gagttttgaa aagctcatgt  240
gcttatcgac tgtactcact cagcccaatt caagaaatta gaaattccag agaaactttt  300
gggcttagcg caaagataca tgctgagcga gttctacaga tataaagtgt cttgcaactc  360
gtgcttagca ggcatt                                                                 376

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<210> 16390  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16390

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tacctcgaac acaacagcga caatgccggc gagattgttc ctcanagtga atgtacctca   60

```

gctgaccaca aacaccatgt actaccagtc aaatgtacct caggtgacca gcaattcgcc 120  
aatccttgca ccagaaacca aaaaagggtcc ttatcttaac cacgagttcc agaaacagac 180  
ctatcacggt catgctcttt agttcaatag aacaacatag gtagacgaag cgtacctgtg 240  
acgggtcttca gtgtaataac agagcaacaa ccttcgatgt taacaatgca atggagaaga 300  
gagcgtgaaa ggggttcacag agaagaagaa agcgcgagag ggtaaaccga gaataacgga 360  
gcgcgagcaa aatatgccgt gtcaaataca atttaaaatg ttagtttaac atcgcgtttc 420  
aata 424

<210> 16391  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 16391

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gctctgacac aactcactcc ttgtattagc acaaaaacttg tggctataat gtcggagatg 120  
accatggaac gctatgaaaa cgaaaaatac atggatgcac atcaggagga gatgatacaa 180  
acctatgcca tattatgaat agct 204

<210> 16392  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 16392

ggcatgtggt agtgtattaa caagatTTTT ttataaaaag ggagccttaa ccgaggctgt 60  
tttcgtaatt atcatagccg gactctagta tgggtcttct ttaaaaagtt tgacatagct 120  
tagtctgata ttgctgggta ggcttgggga acaatgtggt ctattggtct ttggaaagga 180  
gctagataag gtgtggaata catatcaaag gacatggcag ggaaggatct atctatgaag 240  
tctatacgat ttagtcacgc aggggtgtgtg aagtcatacg gggcccattt ttgacagagg 300  
atgggttgat ctggcttatg ttt 323

<210> 16393  
<211> 377  
<212> DNA

<213> Glycine max

<400> 16393

ttgcttgtca tttttctgag tgactcatatc cagccctttg agattacttc aattattggt 60  
cttcaaaaaa cttgtctttc tcaatacatt tacacaaact caccaatagg cttaaactcg 120  
gaaggtttat gatttatggt tagaagggtt ttcataatta aaacacaaag aattttggac 180  
tcaacaatgg agtctttgct aagaaccaga catgagagct agttgagctt cctatgggaa 240  
agaggaaacc tctattatca aaaaaataaa gggaaaagtt cacggctcgc ctactagcaa 300  
aaaggcattc aaagaagaag aggattgact atgatgagat tttctcccca atcgtaagac 360  
atacttctat cagggtg 377

<210> 16394

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16394

aaactcangg caaacacatc ctgggccatg ctcttcaacc taaagttcac cttggtgag 60  
ccctttttgt ttctaagttc catcttcaaa ggaactcgag gtacacaagg tttgtccttg 120  
acgatcttct ttattcctaa tttttatctg tctaggaata cgagtatata taaaacccaa 180  
ggtctgccct tggtagagat tcttccaaaa cccaagggtc acccttggtg cgtactcctg 240  
taaaaacccaa ggcattccct aggtccactc actcgacaaa ctatgacgac cacaatcaaa 300  
ggtctaagtt caacaacaca aactaccacc aaactatttg gcaaggcctt tcaatcaggt 360  
ggaagtcata cttgtctctc aaaaccatca gagaagaagc ttcgcaagtc aaaac 415

<210> 16395

<211> 375

<212> DNA

<213> Glycine max

<400> 16395

tgttcttcga gcttatgcaa atggccataa tatttgactt gggcatccga ttacggccca 60  
taacatatcg agaatttcga aaatgaacac agaatctcct agcgaattca aaccacctaa 120  
cttttgacac ggatatctga ttgccacca taacacatcg agactctcga aattgaacac 180

agaatctcct ggcaaattca aactgccgag acttttcaca cgaatgtatg attgaggtca 240  
 aaaatatatc tcaacgctca aaattcgaca aagaagcttt ggggaaattc caattgtgat 300  
 gacttttgac tcgggcatcc gattgaggct tgagatagaa tctcctagca aattcaaatg 360  
 gccataacat ttgac 375

<210> 16396  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16396

ntgagaaaat tctaacgaca ataacttttt acgcttatgt tcaattgagc cccatagtat 60  
 atcgagacgc tcgtaattga aaatagatgc tcgtagcaaa ttcaaacgac aataactttt 120  
 aactcggatg tccgatggag tcctgcaata tattgagaca ctcaaaattg aaaatagaag 180  
 ctctgagaaa attcaaacga caataacttt ttactcgaat gtctgattgt gtcccgtagt 240  
 atatcgagac gcttgaaatt cagatcagaa gttctgagca aaatcaaacg acaataactt 300  
 ttaactcgaa tgtccgattg agtcccgtaa tatttctagt ctacagaaat tgaaaacaga 360  
 agctctgagc atattcaaat gacaataact ttttaatcgt atgccgattg tgtcccgtag 420  
 tatattg 427

<210> 16397  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16397

ttgcatgcat ttttattgac actattgata agtctcccat ggaagcacct gatctgagtg 60  
 atgctgaagc aaccaagggt tttcaaaagt acctagatga gtgccttact gctaagtgca 120  
 ttatcttggc atcaatgagt tcaaaactcc agaggcaaca tcaagacatg gacccatatg 180  
 agatcgtcga acatcttaag aagatgtacg atggtaaag caggacggct agattccagt 240  
 tatctaaggc tctgtttaga tcctcacttg ctgcaaatga aaaggttgga ccccatgttc 300  
 ttaagatgat tgatctcata gaacaacttg agaagttggg tgcactcttg ggaaagagct 360



ttctcaagat ttgatta

377

<210> 16398  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 16398

tccactaaga ttcgaaccca caacaaagta tgtttataaa ccacatctac cactagatca 60  
agtcaagctt tattttaaatt tgttagttaa aaatgtagat taacaattcc aagacagtaa 120  
acaaaacccg caattaaaat gacatattta gatcaaacag cggaaattaa aaatattacg 180  
agcgtatctc cgcgcattgc aaattaaacg ggaagtttgt tcttccagac ccttactcac 240  
tctgaataga tgatgtatatt tttctgaata gagaagtggg tttggtgata caaaactgag 300  
agcacctcat tctatttata gagtctgtcc atcacagagc tctcaagaac gtgagatatg 360  
aagggaaagg gaagttaata gtacgtgaga taagagatag aaaaaaggaa cgtgg 415

<210> 16399  
<211> 597  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16399

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gannnnacag ctcgngnacn cncgcgngaa tcgcgtctcn gacgnagcac agtcgatgct 120  
ctatcncctt tgtcttttta ctanacaaca ctcgcagacg catctttgag tcgaagtaga 180  
acgtcacagt cgcgacgtct ctacgtccag aactaatta gacgctctag tcgtcttgtc 240  
atccgtaatc tgatgacgta gaatacctgc tataatagct tcgagctgag ttcaacgaac 300  
cacacctgga ctgtactcca ctgtgatctt ctcacacacc attcgtcggg ctgcctctc 360  
gtctaggcac agagcagatt gtttatectg acctcttcat cggtcgtccc gtcgttactg 420  
tataaactca cagatgctta agacgacgcc gcagctatgc tccatcacat tatcctcgaa 480  
gagccgtaaa ttctctgttt aacgcactgg acattatctc gatcttttga tcgctaaact 540  
cgagtttcac aaacgagaac tgtcaccgcg acttcgtcat caccgcacct tggaccg 597

<210> 16400  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16400

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 agttgaaaaa ttgatttatt aaattataag tgtttgatta aactagttgt tgaagtaact 120  
 caaaagtaaa aaatgataga aaaataacaa aatcatgatt tatttaaaaa aaggtaacaa 180  
 gagaaatgaa taaagacttg tttatcgaat aaccaatcaa gctttgcaac tagtaaaaaa 240  
 agctaaaagc aagctgaaat gttttttcaa acatactatt tgtataatgg gacaaatatc 300  
 acctcattat gcttatcaag tctatagggt ctgtggtgct caaccatgtt aaacctttat 360  
 actaaagcan attagacttg caaaaccatt ttattttatt ctagacttct atgtacac 418

<210> 16401  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 16401

gcaattcagc tcggacccgg gatcctctga gctgagctgt tgcattgctt tttgcgaaag 60  
 cttgacgctg gagctgaact atccacttcc ctatctcttt tagactgtag atccctaggc 120  
 tcttgacctt gacttgatag aacctgtttt tatgagaagg cgtttgactt gatcccatgt 180  
 tttactttcg tgaacagaca tccgctgat tcaaaactcc tacatctatc atgggtggaa 240  
 tggatgcatg cttg 254

<210> 16402  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16402

tgactaatcc cgaccaacc cgggcatagt tagttagtga gaacctgtga cgtacctaaa 60  
 caggcgaact cctggcagtc aaccaataaa gtccacagag caaggaggct tgggtggcgg 120  
 ctggccagct atggatcttg agtggatatct ggaatatggc ctctggtaac cgattaccaa 180

gggtttgtaa tcgattacaa ggcttaaaaa tggaaacagg atgttaatat ggcctctggt 240  
aatcgattac caaggggtgtg taatcgatta caaagcttaa aaatggagac aggatgttaa 300  
tatggcctct agtatttgat taccaagggt gtgtaatcga ttacagggct taaaaataga 360  
gacaggatgt taagatggcc tctggntaat cgataccaat ggtgtgtaat c 411

<210> 16403  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16403

ttgcatgcat tcttntgggtg ggacatgttg acttgctttc caatctgaca ttcgccacag 60  
atcctgcctt cttctatttt aagatcgga atgcctctaa cagcaccttt gtcaatgatt 120  
ttcttcatgc ctcttaagta gcacatgtcc aaatctttga tgccatattc tgactttatc 180  
ttctatggac gatagacatg ttgaggagta gctggtttct tgaggagtcc ataggcagca 240  
gatgtccttg gacctgctgc ccttgattag agcttcactc ttctgcttcg ttaccaagca 300  
ttctgacttt gagaagctta cattgaatcc ttcattgacac tactgactga tg 352

<210> 16404  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16404

aaccataacc ggtgagagtg caatctttta ctttagtgaa ctactagctt tgagtaatag 60  
tctttgcac aatctttgaa atctagaata taacgtatga atgaagacat gatgaacgcc 120  
atgattgtat atacaagcca attgactaaa aagcttacct tgaatgataa ttgtatcctt 180  
tgcacccttt gtgagctaaa ttacattttc aaaattgaac cctaaacttg aataaatatc 240  
tctagatacc ttgcttacat tctatgagag catatggctc aaggaaaatt taccctaaac 300  
ttangggagt ggagtcgatt tggatgtaaa gaaaaaggta aagcgtcaac acacacaaca 360  
aataagtgggt gtgctaaaca aaatgtaatc aaagaaaatg tg 402

<210> 16405  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 16405

tgcttgagct gaaaaaacta catctctaga atcattatga agaataagac acgcgtgcat 60  
 gacgcattac atagcctacc tattgagcta cgcttcatat agtactattc agtcgtgcac 120  
 taacctactg gtacctgtat tataccgatt gacacatcct tgtatgaatg atattacgta 180  
 cttatgggac accagtatct ccgcattttc catcgatgtc acattgctgg atagtgcata 240  
 ttcaaagcac attctcccaa taatcctcaa caaccttgct tatgctgtga gcacaaccct 300  
 cagattagtc atgagcatgc ttgcatagac atac 334

<210> 16406  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16406

gacactacta caaactcaag ctttatactg tagttgtgct tttagtacta ctgtttgtta 60  
 tgctcttcct tttgacgatg gcctatgtag tgtgtatata ctcaagagct acacaaacga 120  
 ttgcatacac tagttggagg ctatagcaca aagagaacta atgtgggtgga agtcaagcat 180  
 ttgttgactg tgtcctcagt cctcttgtca actttacaaa gatcctatca tttagtattt 240  
 ttcattcatc taataaatac tttttgaatt tcgaaagata tgtgacggct atgtgcacat 300  
 agttgtttgtg tgacttgtgg agacctggtg actgcttcag ccaatgtgat ttggtcttgt 360  
 gctttcctta tagtatgttt atgagccac 389

<210> 16407  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 16407

ttacgagcat ggcgatgtat cacaggactg ctcatatc cgagtggagaa gtgatcgta 60  
 gaagaatatc tcatatctgt gtgattcaat aaccaccatc gtgatatatg acgggactta 120  
 gatctaacat ccgagcaaaa agttattgcc gttggagttt gctgtgagct tttacattcc 180

atggcgaccg tcttaatata ttacggatgt caatcacacg tcctagttaa aattttattgt 240  
 tgtttgaatt aattctgagg ttcacaaatc aattatgagc gtctcca 287

<210> 16408  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 16408

ttgagctaatt tcaaacgatt ataacttttt actttgatgt ctgaatgagt cccgtaatat 60  
 atcaagacga tcgaaattga attctgaatc tctgagctaa ctcagacgac aataacgctc 120  
 tgctcggatg tctgattgag tcccgtaatc tattgagaca ctcgaaattg aattctgaaa 180  
 ctcaaagctt attcacacga caataagcgt ttactcggat tgtcgattga gtcccgtcat 240  
 acatcgagac gctccgaaat tgaatgttga agctctcagc acattcaaac gacaataacc 300  
 tttttactca gatgcctgat tgactcgtcg aatatatcga gacgatcg 348

<210> 16409  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 16409

ttgtcttctt gcaagatgga agcaaagaaa tctatcaatg gggggtagaa taaccctcat 60  
 taattcagtc ttaacagcct taccatcta tttgctgtcc ttcttcaaga tacctaaaca 120  
 tgtggtgcaa aagattgtat ctattcaaag gaatttctta tggggaagtc accaagactc 180  
 caacaagatc ccttggggag ggcgcatttg cacatgaatc actcttgagg caaaaatcaa 240  
 ggatcaaatt gctcatggaa ggtgacagta acacatgctt ctttcataaa tccataaatt 300  
 ttagaagaca ttataatgca gtctaaggaa tattcattga aagtatatgg gtccagcaac 360  
 caaaatt 367

<210> 16410  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16410

tggtgacacg cggagattta tcgtcatctt ccgcgtacac aagatctgtc atactgacat 60  
ttgagtcacg ctgacgggcg gaaatacccg agtgggtatc cgtataaaca ttcttttgct 120  
gtctgtaaga caaaaagcct gatagcacgc agagactaac gtcgtcttct gcatccttcg 180  
tcaatcgcg cgcacaagcc cgttggcacg cggagattta cgtcatcttc cgcgctcaca 240  
agatctgtca tactgacatt tgagtcacgc tgacggacgg aaatacccg gtgggttatcc 300  
gtataaacat tctttntgct atctgtaaga tgaaaagcct gatagcatgc agagactgac 360  
atcgtcttct gcaccctttt gttccccggn gacaacaagt cagttgcatg 410

<210> 16411

<211> 375

<212> DNA

<213> Glycine max

<400> 16411

ttcttgctca gtgtctctat gagagtctct agttgcttgg ctaggagctt attctaggct 60  
agtagtgct cttgtgatgt gagctcgaga agactctttt ttataggtgt gtaggcttaa 120  
tcacgaagga tggcattgtc attggctgtc atattttcaa tcaacttcat agcttcatta 180  
gggtgtcttta atttgatctt cccaccagtg gaggcacaa gtaactactt cgaatgggtt 240  
cgcaagccat caatgaagat attgagttga acccggtgat gggagtcttc cagagtaaac 300  
catggaagta gtcaagagct tcaactcagt atccatcggt gaattgatgg aatgaagaga 360  
tctcaacctt tccct 375

<210> 16412

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16412

tagacaactt anagaaacca atttggaag catattgagc ccaacatttt aactcaaga 60  
tatatctatg aaatttatct ggatgaatat ttgggttgaa tagttaactg agcccattgc 120  
atttattatg tccgaatata ttcaaaggat attgaagata tcatatgttt aacatttatt 180  
attaagattt agagtttaga gtttatatca ttatgatatg tttttatctt gtctttggat 240

ttgttttcatt tattagaact cttattttgt taagatttgt tttctctttt aggatcaaaa 300  
tcttatttta tcatatcttt agttcatata agattattgt tttatcttat ctttaggtta 360  
gacactatta aaatttgttt tccgtcactt gttntgtatt tccctataaa taggaagcca 420  
tg 422

<210> 16413  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16413

ttcttgccat tacaccactt gaccattcaa ctaggctgca tcaagatgaa gggaaaccat 60  
atgaagatgt agcatcctac agaagattga ttgggaaact tctgtacttg aacaacacta 120  
ggcctgacat cacatttgcc actcaacaac ttagtcaatt ctttaagtaaa cctagtatga 180  
cacactacaa tgctgcctgt agggttgtta agtacctcaa aggcagtcct ggccgaggcc 240  
tggtcttccc aagaaagcca gaaatccagc tactaggatt ttctgatgtt gattgggggtg 300  
gttgcttaga ttcaaggagg tccatttcag gatattgctt cttcttgggga gcctctttga 360  
tctcttgagg agctaagaa 379

<210> 16414  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16414

ttgaacaata tacttgctct tcattttaact gtctttgggt ttggcgcca cactcaacaa 60  
agtactttcg acacctactg tacgttgatt tgaccaatgc tgttatggga atgttgcaac 120  
aatccttcaa aaccttattg atacattttg agaggttggt tgtcatgtgg ccatatcgac 180  
gtccttctct atcataagcc atcgctcatt tttcctttga aatgcgatca atccatgttg 240  
ctgtggctgg acttagttga cgaaattttt ctaaattttg gtaaataaat gtgcttgcaa 300  
ggagtgtagg ctgcataaaa tgagttatga ataacacatt taagtatata ttaaataaac 360  
gtgaccatca aatatgaaat cttacccaat ttcttcaaca tttcttttnt gttggcatta 420

ttg

423

<210> 16415  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16415

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tgctgaataa atgacagctc agcggcagtc aatgaaggcc tgtgggttacg acgggtactg 120  
tttacctgtg aaaagagcat gcaatgtatg cgtgagatgc acgcgaatgg ggccacgtgt 180  
gcggcagaca gcaacgcggt tgtggcgtct aggtcatcaa agacaggcaa tgatgggtctc 240  
tagtaggcac cgacgaaagg gcgtcgggaa ggcttccaaa caaggcagag acgcagtgtg 300  
gtactgttca ctgcgatgag ggactgcgca agcaaaaaga agtgcgtgag aacacgccgg 360  
tggttcttca agacatgat 379

<210> 16416  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16416

tatcttgctc aatattagca agttcttttg attgttgtgc atatgtcaac acctaatttc 60  
aggaaaatac acaaaagtaa aatcaggtca gaattttcat gcaacaatct aggtttgagt 120  
cattgatagc caccatcatc aaatattaaa gagattactt tcaaagatga tcattataaa 180  
ataaaactat canagaaaac attttgtagt gtcacaatgt ataaaaatga cccgttgttc 240  
atacataaca ttccccaacc aacagcatag aacaagcaag aaaatggtag ggctatagag 300  
tcctcgtaaa gatagtgcaa gagatatcta agagaaagggt taaccacatt ttgatattaa 360  
aactcatctt acacgatagt ttcttttttt tccttttcaa gcacgtagat tgagcaac 418

<210> 16417  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16417



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 aaaatgcacc catatacaat caaggcacct tcgttaccta gattatttac atgtacttcc 120  
 aaggtgtatt tgttacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180  
 ctctaagcac tttgtctatc aaaaattgca tacgtgcaca tcttggtatt tctaatacct 240  
 atacatacac aaacttcatg atgaatcttg actatctaca caataagggtg ctacatttca 300  
 tgctttttgc cttttttttt ttcaagtgtt tttttttact acctagagtc gcatgcaaat 360  
 tcaagaatat tttctttt 378

<210> 16418  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16418  
 tgtaatactg aatttgtaag ggaaggggtg tgttattcta tgtttgattg tgcattcttg 60  
 tatatagtaa cttttcacca caatttaca gtttccattc aactgtaccc cattccacca 120  
 tattcttggtg gctatgattg gggattaaat gatagtattc tgagaaatta ccgtactttt 180  
 gaaataatac accttaacaa aacaagaaaa tgaaagaata aagcattttg tgccaaaaga 240  
 aaatacagat tttgcatggg ccacacaatt tattttacgtg attttttaca agaatgacat 300  
 atggagctgc tgtttcagca tatggcctat tctatctatg cttatgggtt tgcacttcag 360  
 tcaatacaat aatgaaccaa aatacacaga aggccaaatg gatttttctt aactagcaga 420  
 aat 423

<210> 16419  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16419  
 gatgtgcaag cttatttctt tcttttctaa agaaatcctt ctcttgtcag cattcatagg 60  
 ctcgtaacct agaccaaacc tcccatgggt ttcagcaaac ttcaccaagc ctatcgtgcc 120  
 atcactgttc gggcaciaaac ctatttcgag ctcataacca tctcttaaca taactcgggc 180  
 caccatgaaa gaggcacctg ataaacatgg ttgtaccgga ggagactcca tgtaagcact 240

gctcataatt tctagtgtt gaaaagatgt ttccaatgac tcttccacag cttccacata 300  
 aggtgtagaa gacggacaac tcactagtat gtctctctcg cctgacacta taaccagctg 360  
 accttccact acaaacttca atttct 386

<210> 16420  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16420

ttggcgatc aaggagagtg gacctcattc attgacatat tagctttgtt ggtgtttgag 60  
 accatactct ttccaaatgt agataggcta atgggttttag tagcgatcaa cgcttttctt 120  
 gcttatcatc acagtaagga aagcccgatc gttgctatct tggccgatgc atatgacaca 180  
 ttcgacctga gatgcgaaaa gagtagcaca aggatcatct gctgcacgcc cgctctttat 240  
 gtgtgattgc tctcccacgt gctccatcat gaaggtagac ctgtctgtcc tctacaaggt 300  
 catcgcatgt gcgcaaaaaa gggaaaaaca aattgggagg aactcttgca agtatggtag 360  
 ggggtgtcata ccctaatttt gtttgggggc cttcatttac taatgttttg attc 414

<210> 16421  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 16421

tgcttctccc ctatattgct ataaataggg ggagaagtga agaacaaaag ggttcagccc 60  
 cttaggcact tctctctctc tcgaaatttc tgaggaaaat tagtttcgtg aagaaaatcc 120  
 aagccgaggc gcttacgtaa cgtttccgtg agtaattacg cgaagattct cgaccgtttt 180  
 tcaagagtca tcgatcgttc ttcgatctct tcagtcttca acgggtaagt acctcacacc 240  
 aagctattca attcattcta tgtaccctgt gtgggtccaaa tttcgtttca tgtattgggt 300  
 attctcggtg tcattcactt tttatacccc ctcttgacga gcttatgccca tttattta 358

<210> 16422  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16422

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ccaactcctg aggacctggc tatagtttgc agaacctgta atatgtggga aggctctccc 120  
ctggctctag aaccaccgga gtctccagga aggtattgag ggaatcaaca tcaaatttta 180  
tcaagtgacc tctaacccta acctgttttg gagatttata ctccgggtca tatatattag 240  
cataaaattc tttcactaaa gccacatcca tgctcccctc ggtcaagtta gtcagctaca 300  
tgtgctagtt tctgctctca atttctcttc tagattcata gtattcagtc acaaacagct 360  
tgaaatttct ttccgaaaga atattctgac caagaacatt atctgcataa tgatt 415

<210> 16423

<211> 369

<212> DNA

<213> Glycine max

<400> 16423

tttctttcac ttgacagttg aactttaacc tcgcattact taattgttac ggttatgtcg 60  
cgagggaagt taatgacaga cataacttac tgcttgccag attgtattgg aatatagatt 120  
atgatacaga tctatgctgc gagtgcatac tatgttagct ctgccacaag cgtgggtacga 180  
aactatctat ttttttagaa aaaaatatca gatatttttt aagaaaatat tatgacatat 240  
agctctacta atctatgtgg aaattaaagt atgtgaaatt atgaggataa tctatctatc 300  
tataatctact tatatgttat atcggagaat tagaagctga cacatagcat ctgacttatt 360  
ctgaaataa 369

<210> 16424

<211> 408

<212> DNA

<213> Glycine max

<400> 16424

ttcataaaga taacaaatgg caaacaactc ttatttaact aacatgttaa tttattgttt 60  
gtttgttcgt ttgtgtgaaa cataacttga tggaataaaa ggcttttatg aaacgtcagg 120  
aaaaaactgt ttgtatgaaa catttttgca taacattttt ttttcatatt actttagggg 180  
acagattaaa aaataaataa ataaatgttt ttattgaaaa tacattacaa atcatggtag 240

acatatatta gtaccatttt ttgatatat ttttccgatt ctaatttctt aatcattttac 300  
 ttttttcatt aatgcacata atttatattt gtcacaattt taaaattaaa acattttctaa 360  
 cgctggctta taaatgattg caaagtatat attactatcc gttcgttt 408

<210> 16425  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16425

cgttgcatgc aatctttggt ctaaaggaca atcattaaat gtgtgccaca tatatgcctc 60  
 gtctctagac catatcactt tgtagcggt ttggaagtac ggtttgtgaa caatggctat 120  
 cgtggtattt ttctttgttt gatggaaaaa atatcctctt tgataagtaa aatcaatgac 180  
 ctttttcaat actcttctcc accaagatag tgaagaaaac tattcaagca aagtctgtga 240  
 ctccctctac ccctcacatt atgtactaat aataaatgga ataagaaatc agaattaatt 300  
 aaaagttttt aaaacacatt taaataagat gctctcaaaa gggcacaaga ctacattca 360  
 cttttctaac atcataa 377

<210> 16426  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16426

ttgaggtaca tcaattcaaa tttcagagt tctctataaa gtaaagatat gagctatgag 60  
 ttattcccta ggtgccattt tcaagtcata gtaatggcaa gtggcagatt caattntaaa 120  
 atatacaaat aaaaatggac actcttcact tttctctgtg tgtgtgactc aatctaccac 180  
 aacttagtag gttaagtagg ttgactacta taacaaagag tccaattacc aacggaaaat 240  
 taccaacaaa tccaaatctg tacgttggaa atatgagcat tttttacgga ttttctttca 300  
 tcgaaaatgt ctatattact gacagaagtt tccaacaaat tttcgtctaa tttttttaaa 360  
 aaaaaatcaa taaatattta ttgatgtatt tatatcaatc aaaatgttta acat 414

<210> 16427

<211> 351  
<212> DNA  
<213> Glycine max

<400> 16427

tgtttttata gaaggatcgt tcctaatttc totacaattg catcacctct caatgagctg 60  
gtgaagaaaa atgtggcatt tacctggggt gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttctg acttttgtaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagotgtat tgctacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300  
gagctttatg ccttaataag agcccttcaa acttgtgaac attaccttgt t 351

<210> 16428  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16428

tgaacatgat gaaactcgtt aactcaatgt cacttttatt cactcaattc gctcaagttt 60  
cctttttcca gtgtactaat gtttgaacc ggcaagtga ctggattgtg caagtagttt 120  
aaaacggtaa gaatcgagta tcgaactctc gaggaacttg tgttacttcg taaagctata 180  
ttcagtgaat aggtgtctag tatgaaaaga gatgtgtcga ctatgcacaa gtatgtaaac 240  
taactattaa aaggaaaatc acgtgagtaa tgatgtgtaa agacaagtag acaacacctt 300  
ggctcttcta tttagggtgcc tgatgttaaa aggatattct ctacttaaca atgctcatgt 360  
gttctatggg gtctcctgaa atgctaaacc ccgattcctc atgatagtct atcctaattc 420

<210> 16429  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 16429

aagtctgctc gcatgctttc tttcttcaag cttgttcaga cacaattttc caaaagcatt 60  
aaggctatgc ggtctgataa tgctaaagaa ttagctttga ctgagttttt gcataatgca 120  
ggagtagttc accagttttc ttgcccacac agacctcaac aaaattcagt aatagagagg 180

cgccatcaac acctattgaa tgtagcacgt gctttaatgt ttcaagctca gatgcccaatt 240  
tatttttttg gagagtgtgt atccacgaca gcttacatcg tcaacagaac atcaagctca 300  
aatttgcaga accaatcacc atatgagttg ctatatggta aagtaccagc ctatgatttg 360  
ataaaggtgt ttgggtgctt gtgcta 386

<210> 16430  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16430

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cattgctatg tgggtgccact tggcttatca ccggcaacca cctgggttatc ctgtgtaaaa 120  
ctccatggta ccagaggggt aaggagtat gggcttctct catgatgctt atttgggtata 180  
ggggcaagca ttctagattt gatggatgat ggaatcatta atttacagtt aaagtcttct 240  
taagctcctg agtcctgatt gtttgcaaac tcattaattt attgctgagg tggatcatcat 300  
actgcgatat gtatcgacaa attcataatg tatttctaaa atatttggtg gatcaaaaca 360  
cgttgggtata cattactggc ttgcattatc tttgagcact gtcctatgaa tgatacttct 420  
gc 422

<210> 16431  
<211> 347  
<212> DNA  
<213> Glycine max  
<400> 16431

ttcttataca atggagggta caaactacat gaactggatg gaaaagcaat tccaagaaca 60  
cggaacacta cccatatgaa gatctacttt agttgaccta atgcaagatt ggatgttgta 120  
ctctttttcc tacttaattc ttttgaccct gtcagaccct aattttgtcc ggggactatc 180  
at ttgctaaccg aattgagctg cttgacacca gttgctacgc 240  
aatatgaaag gtttttcgat gtttcgcaa agaattgaga aaatactcaa atgggagggc 300  
aaaaggggtca ttttggagtt attctgaccc ctggctcgcc caggata 347

<210> 16432  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16432

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 attgtagctt atcaccagaa agaattttcc agtaataatt tctagagaag aaaagaagga 180  
 gaaggtggaa tggcttggtt ccaattcttc atcccaagga accttatcat cacaaggata 240  
 ataggtatga cttaattccg aatctccaaa aacatatcag gaaaccaagc ttcaagagat 300  
 gctggaagag actaagaatt tcctgagata aaatcttcta ccttagcttc caacaagcta 360  
 cgtaattgat atggaatatt acaaagattc acaacaaaat cacta 405

<210> 16433  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16433

caaaccacg caaaacccat gaaacccac aacatgtatc aaaccagaag agaatgaac 60  
 atgatgatca atgcaacann ganaaaagag ccgcacaaag gacagaaaga ggagaactcg 120  
 cggattccat gctcagcaca gaaggcaacg aaaaaggtaa acaagcataa aactcaagg 180  
 aacgcgcgaa caacaaagcg gccatcccat ggggagaaca ggacaaccac ggcgcaaac 240  
 cgccacgaga ggagctcaag gaagcacacg aaaccaaccc ccctaaaagc cacagcaaac 300  
 aggagccaaa acgtgaggac accagagaga aaatacgaga aggagcagca aaaagcgcca 360  
 ccaccatagc gataaacccg gaaaaactaa ggagcacata ccacaagacc cacacacagg 420  
 aaaacaagcc cagcgcaaaa ggacgagaac accaaccctg agaagatgca ccgagcaaca 480  
 acgcaaacca aactac 496

<210> 16434  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 16434

agaatgtcgt catgaactga acagacaaaa tcccgtgcct tagaattctt caactttgcc 60  
accagttctg ggcctccacc ccagcatctg ctaatctaaa gactcttagg cccgctcaat 120  
taatcaagag aactcagaac tctcctgaaa acctttggct atatggctcc ttgcaagccc 180  
caciaagacc aatagagagt acacaatcaa taccgtacat tgaaaaaggt tgtccagata 240  
tattcaaccg attgatcgac tc 262

<210> 16435

<211> 378

<212> DNA

<213> Glycine max

<400> 16435

agcttcaaga ataatgacat catccaatta tttatttccc gaagggaatt ctataaatag 60  
gcctcctatt tttaatggcg tgggttacca ttattggaaa acccgcatgc aaatttttat 120  
agaggtaata gatctgaata tctgggaagc aatagaaatt gggccctaca ttcccactat 180  
ggtggcagga aatacaacca tagaaaaacc tagggaagaa tcgagtgagg aagaaaagag 240  
attagttcat tacaatttaa aagccaaaaa tataattaca tctgcttttag gaatggatga 300  
gtacttttagg gtatcaaatt gtaaaagtgc aaaagatatg tgggataccc tacaattaac 360  
acatgaaggt acaacaga 378

<210> 16436

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16436

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aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacgc caaatgatta 120  
tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180  
aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaaaat gtcaaaaact 240  
tttattttca aaacaattac ccatttcttg aacatatacct ataattcaaa gaaaaacatg 300  
caaagtcgta catgcacaca aaattgaccc aaaatattaa actaacaatc cgacgaaact 360



aacaacatta acaaattaac aaaaccaaca aaactagcan aaccaaagaa cactcccccc 420  
cccat 425

<210> 16437  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<400> 16437

tgcttagaat tggaaatggg atattgaggt ggcctctggg aatcgattac cagtgccgtg 60  
taatcgatta cacagagtaa caggccactg gtaatcgatt accagttatg tgtaatcgat 120  
tacacagtgc atattgcagg tttccatggt ctgaagttgt gtaactcgag tttggcctat 180  
ggtaatcgat taccaatggt gtgtaatcga ttaccagagg agaaaaccct tgaggcatac 240  
tttttaactt catgtagtgg ttatgggaca cattgtgttg ttaaccgtag ttagatttct 300  
cgtgaaagag tctaccctt tcttttattt cttgtagatc gcgatgacaa tgcaattaat 360  
ccatgaccga gtggag 376

<210> 16438  
<211> 421  
<212> DNA  
<213> Glycine max  
  
<400> 16438

ctaagctgct tgggagcttc tatggagggtc ggatctttta tctttattga ggtccttcaa 60  
tgggtgatttt ccaccatgaa gatgcagcgg aaggcaaagg agaaaatgag attttccacc 120  
atgggggggta ggattgcac atcctttcca ccttggaat gatttgacct caaatcccg 180  
ggttcttcat actctgggct ccttcccttg acacctataa aaagaataaa aacatatgta 240  
ttagtggtgt tgggtatggt agagtaggta aggtctgaaa acccctttca tagagatttt 300  
cccatgagga aacatgggtc ctcaccaact caatgagtgg tgctacaagt atagaaaaat 360  
atgggacaaa tcttttgtaa aagtttggtta agtcatggca gccccgaatt tcccttatac 420  
t 421

<210> 16439  
<211> 376

<212> DNA  
<213> Glycine max

<400> 16439

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agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcacct ccatgggtgga 120  
aatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 180  
agcaagcttc catcaagtgg tatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt ttttgcctta ccttctcttc cattgttgtt tcttcatttt ttctccatgt 300  
atcgccctac atgtcttgtg ataaatgttt ttagcatgat tctttagagt ttccaccgat 360  
taaacttgct atagaa 376

<210> 16440  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16440

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acctatactg accactcctt tcacaaccaa ttaacacaaa tgaactcctt cctctactat 120  
cagtctgtgt cagacctcat aatgattaca acaaatecat ttttatgagc aactgatcaa 180  
gcccaactgca aaacatcatc tcaggtatca aacacctaca acgcaatcca ggcaatttta 240  
gttttctaca acatattcat tttatgaaat cactcacaat aacgaacatt attacctaag 300  
aagtattaaa cgcatccgaa caatcaacat gtggttcatt cacaccacat tcttgttcatt 360  
tntgatcatc catatcaact tctttaggca ttatactgtc atgcatccat tgatcttcgt 420  
tcac 425

<210> 16441  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 16441

agcttgatg attatggggg acccatcaca tgtggtacta ggtggcgggc gggcaatggt 60

gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240  
 gctatcacag ccaagcaaaa caaagcaaa gcaaaaaact ctgccaaaac accaaccaaa 300  
 aatcacagct tttccactc aaagaccca gtaacaattc cttcgatcca atttgtaac 360  
 cgttggatcg actccaaaat 380

<210> 16442  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 16442  
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 ctgcatcatt cttgctttca tcttacatcc tttactccat cataatccaa gtaagtagtg 120  
 cttcatttcc attttcattt tcatgctttg aaccttagga tagacgattt cttgctttgt 180  
 tagcttgctt tgctgttttag gttagggttt ctagcttttag ggtttgttat tttaggattt 240  
 aggttgagtt gtaagcccat taggggcaat gctgctaaaa ggggtgaaga ccctgtgtt 300  
 tctatttaga aattgcatg gacacgctaa gtgcgcctgc tacgcttagc ttgtttatca 360  
 cagctgttaa attttttgat ttccagatga gggcgctaag tagaccatgt cgcgctaagc 420  
 g 421

<210> 16443  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 16443  
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 aatcatcagg gacattggac tttcctcgac gtcgacagg gtccagaagt aaacatatac 120  
 tagattacca ttcggttctc aacggaataa atcagaccct ccgagaatgg ctgactcag 180  
 ctgtacatac tgcccaactg tacaatgagg actaatataa gatatcagcc cagttcccg 240  
 tgtcgagaat gaccttgac actatgaacg tagccaccta tatcttgatg accatcggag 300

cattgtgaca tctttcagtg accccgcaat ccttgattgt gaaaatgata gggggcat 358

<210> 16444

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16444

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tatatcaa at ggacataaaa agtgcattcc acaatggact aatataagag gaagtctatg 120

tagaacaacc ccctggggtt gagagtaaca cttccacaa catgttttta aactcattaa 180

agctttgtat gggctaaaga aaactccttg agctttgtat gaatacctta gttcattcct 240

tttgataaat ggttttgaaa gaggaaaagt ggatatagct ctattctgca aaaactatga 300

ctcctaattt atattagtagt aaatctatat ggatgtcatc atacttgggtg ctactaatga 360

acctctatgt gaggatttct ctaagttaat gtacgttgaa tatgaaatga gcatgatggg 420

<210> 16445

<211> 370

<212> DNA

<213> Glycine max

<400> 16445

ttcttgcgta gccgctcttg gtgctcacia aataccaaat acaaaccct cttattacta 60

gctatgtttg aatgcttttag ttactgaatg tacaaccttc aaattgttgc tcgatccct 120

ctttgggttc tgcaaaaaag aaaaacaata tcaaagaaaa cattgacaga taggtcatgg 180

ttattattac tcgaacaaaa aggaataaca tttaaacgag tcatattatt tttagaatgt 240

gaaaactcta catatctatg gagaacatgg ggtatggagg cacgtaatca tgtgaatacc 300

acaagtcatt ttctgcaatt caaggactgg attaattgct ctaggataaa agcatacgtc 360

tcggatattg 370

<210> 16446

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16446

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gctgctggaa cgnnnacccg ctgaagacac tgctgaatc tgatgctggc ctttctggac 120  
ctagcttggc acgctgccg catgtaaatt gtcttcccat cacaccttga atgctgctgt 180  
caccgatac acgtatcagc taaatcttga ctggtattga agccttccat tgacatggct 240  
tgaatgctaa ggtgcgatcc catcccactc ctctggcct atttatccac atgcattaca 300  
tcaataca 308

<210> 16447

<211> 378

<212> DNA

<213> Glycine max

<400> 16447

tttgcattgt ttttttattg aaaatttaag atacccctgt acttcaggga acgattcctag 60  
tcttttggtta taaatgacta ctccatggac taacggcttg actgatttat agaataccgc 120  
gtttatcttt ctgaaacaaa cgttcacact gttcggactt gactcttgat tcccttgacc 180  
atagtgaagc ccctaaaact aaaaacagaa cattcagaaa aagagtacta ctttcaaccg 240  
acgatatttt gggaacgtaa ttgaattctc tcttcgaaaa ttctaataaa tgcaaaatat 300  
gcccaaaaac agagtgtctt ttttagttca attctagtat attatcaata taaaaaatta 360  
tattattaat tgattaga 378

<210> 16448

<211> 415

<212> DNA

<213> Glycine max

<400> 16448

tattttcaag aatacattta tgatgatatg tgatttcaaa tattaaggga atttttacct 60  
tttatcttca agacattatt ttctcttagc atattaatta gtggtcaacc ttccccattt 120  
gttttgcttt attcaaacga atttaatagc ctccagagaa gcatgacctg catgtatccg 180  
taactcatca aaggagatta ggcattgact tcttccgttt catgtcaagt actggtgtca 240  
tagatctttt cacatatcag aaaagttaat aaatcactaa ataataataa ttttataaaa 300

ttaaccttat ttatattaaa aagtaaattt taaaacttat cttttattac actacagtta 360  
 ttatatgaca gaaagtatat agcatgcaaa cttgtatttt caggttcaag tttat 415

<210> 16449  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16449

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 gaatagtcag gtgtagcgac agacaaccag catatagata gccatgagaa tgcgaaaata 120  
 aatgcacaca aagaggctag aggaaaggtg attgacgccc tcagcaacag gcagcgcgcg 180  
 aacggaccgg cttgctatta ccagaacggc aggcaagata ttgcacgntc ggaaacaagg 240  
 ccaaggcaga tggaagacac ccaactccacc caccaagaaa ttcaagggtt tctcggctat 300  
 tgtcgacaca agataaactc actggaccac attatggaaa ggttggatgg aaacacagat 360  
 gcn 363

<210> 16450  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <400> 16450

gaggaaattc aaacgacaat accgttttta tttttgtcgg attgagtcac gcaatatcgg 60  
 gagacgctgg aaattgaaga ccgaagctct gagcaaattc taacgacaat aactttgtac 120  
 tctgatgtcc gattgagtca cggaatatgt cgagacgcta gaattgggat accgaagctc 180  
 tgagcatatt catacgacaa tgcctaataga ctcggtatgtg ggattgagtc acgtaatatc 240  
 tcgagacgct cgaaattgaa taccgaggct atgagcgaat tcaaacgacg aataactttt 300  
 tactcaggtg tgcgattgag tcccataata tgacgagacc ctcggaattg aataccgaag 360  
 ctatgag 367

<210> 16451  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16451

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ttccatctga tggacgagac ccctttcgac cttccacaca ttgtctacat caatatttta 120  
aggaacatga agccctcggg agaagtggat gacatctact atgccaccct catcagcaaa 180  
ctcctctggg aacaccaagt attccatgtc tttgaaagat tggacgagga ctccaagcag 240  
tccatcatca gtaaaagaac tttcggtgcc acacagtaac actttagtca acaagcttgt 300  
tgactgtaag caacaccagg taagacttat ctattagtgg gcaccttgtc tact 354

<210> 16452

<211> 334

<212> DNA

<213> Glycine max

<400> 16452

ccccaattha atggattttt aaggtttgag aagtgaaatt gagaatgagg taaatttgga 60  
gcaaactctc accgcttaca aaaattccgg gtagaaattt ccaggatgtc acacaaacaa 120  
acatcaaaaag aggatccata tacagtgaaa tcatccataa acacctcgat gcaattttct 180  
aaaaaatcac taaaaatact aatcatgcac cactagaaga taccaggggc attgcacatg 240  
ccgaaaggca tcctcctgta agcaaaagtg ccaaagggac atgtgaatat ggtcttttct 300  
tgatccttat gaacaatagt gatttgcata taac 334

<210> 16453

<211> 331

<212> DNA

<213> Glycine max

<400> 16453

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aacacctttc tatgctaggg cttgttaacg aggtgtacca ttccattgct atattgtttt 120  
gtagcaccoc agtgtggtct agtaagatca ctaaaaatag tatcaaaatt ggaccacttt 180  
gtatttaatt attcatttat gtgagatata tatggggcac atctacttta ccacatgaaa 240  
gttgaaatga acctgtgacg cgaggaggat tccaatgagt tcaagaaaga tgaagaacat 300  
tcgtgaaacc acgacctagt tgggagttaa t 331

<210> 16454  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16454

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 gctacgcagc ttcctgggtcc aaactaccat tgccgagagg tatacttatt tgagaatgtg 120  
 tgcttttttaa acaaacatca cgtctcttaa aattaactgt ttcttctttc tggtgactgt 180  
 gagtggtaaa ctatgcaagc tggattcttt tcaaataatc ttttgattta actccacttc 240  
 atgtatcgtg caggggtcta aacttgctac actgcctcat ccagatagtg acgttgaagt 300  
 cctcttgatt aattgctagt atactattgt tcttgagttc tttagctttg actcctttgt 360  
 ggtgttatgg tgctcatttg cgtttcatca tgcagttcca cgt 403

<210> 16455  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 16455

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 caagaagagt taggtctagc gacggcccac gagcatagaa tcgcggtatga gtatgctcaa 120  
 gtatatgcgg aaaaagaggg tagaggaagg gtgatcgact ctttacacca agaggcaacg 180  
 atgtggatgg accggtttgc tcttaccttg aacgggagtc aagaacttcc ccgcttggtta 240  
 gccaaaggcca aggcgatggc agacacctac tccacccccg aagagattca tgggcttctc 300  
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ataggaaact 360  
 tgtat 365

<210> 16456  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16456



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 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagac gaatcacatc 180  
 actgcttcgt ctactgcaa acatatttag gattgttgat gtccttggtta cttccagttt 240  
 caccttgaca aagatgtcat ggaccatggt gaaaatctaa attgattcaa ccccatatcc 300  
 tgcgtaaaaa ttgcgaatac ttgcactgta catcattcgc atgcatccat gcttttcatt 360  
 ggttgcatg ctcattgcat tctttccttg aaaaataaaa taaaat 406

<210> 16457  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 16457

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 gacataaata gggaaaagga aatgtttagt ccgatgctct ctctcggagt catgcattac 120  
 tttctatgct cgaaacataa tagagcgccc atgaatgtta gcaccgcatg tctgaacatg 180  
 atgaggcttt tggagaaaatt tttaaagctt gagataaggc atcagaaaat ggctacttta 240  
 gacatgaatg cttactttcc aaagaaaaca catgggtggat gcctaaatgt gctacaagaa 300  
 aatggcacgg ctgtgaagca catgaatgag ggtaaatgag gcatttggtg gtacataaga 360  
 gtctaa 366

<210> 16458  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 16458

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 gcctatggag tgagacctaa agctgtattg aataccaagt gggcactcta ttgcttattt 120  
 tagtgaaaaa cttcacggtg ccacactcat ctacccacc tatgataaaa agctttatgc 180  
 cttaacacga gccatgccta cttgggagca tcaccttgat tcccacgaat ctgtcattca 240  
 tagcgatcat gaatcactta tgcacattcg acggcaacag caagttaagc caaaagcatg 300

ctagatggct acagccctat agcacttcca t

331

<210> 16459  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16459

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accogtggct acagctgttt gcaagaagtg acttcttcca gcaagtctag caatattcaa 120  
aggagaatat tatgcaataa ccacattatt attgtttcac aatatttttg attattgact 180  
tttacacatt ttttgaaga aaaaataatc acgtgaagaa cttttacaat ccactttgct 240  
ttgcaaatta ttacaaatat ccatgaacat ctttaacgac ttttatatat ttggattctg 300  
gaatggagct tgcattgagaa aatatagcag ataaagttca caagtaatgt taaggattaa 360  
ataagttttt aatatcta 378

<210> 16460  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 16460

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gagctgactc tttaaaatct ctaccctgtt tttaccggtc ctttttatgt tggacactaa 120  
aactgacgcc cttttaaaat attgggtatg ctgttaaggg ttttgcctg ttcattgttc 180  
attggttcta ttgtattttg ttttatgtct tttttatata ctaaatcaca tgctatttgt 240  
ctttttttta tatactaaat tgggtgtgaat tgaccaagac tgataaggag tgtttggcca 300  
tgttcctagc cattgtgggg catcttagca ttctatttct atttgcggt aatgatgaga 360  
aatacaagt accaaaaatg tcatatatga aggtcactag ataaatagtg cttcatccct 420  
cctgtg 426

<210> 16461  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16461

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cttgggggycg taggaggact aggaggtttc cagccagtga tcttatagaa gtagtccta 120
atcatgaacc atctgcaagc ctctttttta gcatgagcat gatccttcaa ggcttgagca 180
agagcttttc ttgttctggc aagttcagct tcaagcaaac taacataagt gcgagaggat 240
ggaggatcat acacttggac aaccatggaa tcagaagcag cttcagcctc aacattagat 300
ttgacttctt caatgatagg atccatgtga tgtgtgaaga agaatttggg gaagggaagg 360
aatgccatan acaaaaaggg 380

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<210> 16462  
 <211> 428  
 <212> DNA  
 <213> Glycine max

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<400> 16462
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gttcaattac tgtcaaggct tttggagcat ctataacttg ttcaactata ttttgtgcaa 120
catttcgggt gataagctgc atcaaatctc tctttttcct ctgtattctt tcagcacgaa 180
agtatttttt ggttttcaat tgcttgcaa ctttagtttg tatctctcct ttgacaatct 240
tcttccgtat cgcattcaga gaagccccct tctcaagctc ttctaacaat tcttttcttg 300
cttctcaaaa ttccatctaa ttcaattaag cagtgagtgc caaaaagtat tgtagagaa 360
aatgaaatat gattgacaat ctaagtaatt aatatttaat actcagcaga aaaaagaaga 420
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<210> 16463  
 <211> 363  
 <212> DNA  
 <213> Glycine max

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<400> 16463
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catccactag agaataagcc atggaagaag gagcttcacc accaagataa gccttggata 180

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ataaacttgg agaggatgct tcaatggagg aaaataaaga gggagagaaa gagagagggg 240  
 ggagcacaaa attgaagggg aaaaaaagag agaagttgaa cttcgagttg tgtctcacia 300  
 gactctcatt catcaaagtt acaataagtg ttacacatgc ttctatztat agactaggta 360  
 gct 363

<210> 16464  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16464

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 cttaaccctc ttagaaatgg gaccagtgtc tccttcatcc tcagtggtaa aagccttgtc 180  
 accagtatcg cactcatcat ccatcatcaa ttcatgcatt aacattcaat tatatgaaat 240  
 cttectctat tttggaaagc atatgttcct tagatttcat agattcaatg aacaatgcac 300  
 taccactaaa agtcacaaat gtctttcttg aacctaatta cgacaataac aaacaaaaga 360  
 atctaagat ttagcaatac tctcttttct ccactacaaa atgaanagaa aaaagag 417

<210> 16465  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16465

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 gccaaaaaga attcgccaag gactaaccgc ctgaaatctt tttgtgtctc tcttctccct 180  
 ttccaaaaag aacgaaggac taactgctga attcgtttgt gtctcccttc tcccttgta 240  
 aaaaattcaa aacgacacag tctaagaatt cttttgattc ttccctttcc ctaatacaaa 300  
 agtgttcaaa ggactaaccg cctgagaatt cttttgtatc cccattcaca aagtatcaaa 360  
 ggtttaacag cctgagatct ttgtctcaac acattggagg gtacatcctt tgtgg 415

<210> 16466  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16466

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 taatttctaa ccgagagtat ttatttctcc agtaccatta ttcacgttca atacgtatc 120  
 aatattattg aaaattctag ggatatgatg agttgacatc aatgtcaatt ttagatctgg 180  
 ggtatccagg tcagcataca ccatcatcat gcatgcactt gaactttctt taatttccct 240  
 ttgcaacatg gcaatcctta acattntgta ctacttattt ttcccccttg caatgtggga 300  
 attcatgaca tttttttgct ttgggtgaaa aatgattcgt tntctttacc taaccaagag 360  
 acatggtacg tcaagggctt cttgcctaga atacgatgga tacacatg 408

<210> 16467  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <400> 16467

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 aaaatgttgt acaaattaat ttaaaattaa tgaccatac aagaatcaaa ccttcgagat 120  
 ttgtgttatt agcacaacac tctaaccaac taaactaata aatgaattat attatacaat 180  
 aattaatgtc actatatgta atactaaaat ttttaatat taatgcgcat gaaaatttag 240  
 ataataaatt ttgcaacaat taattttgat ctaacaatta atttgtttac acatgttcgt 300  
 agaaaaacaa ccactagacc acatgtcatt cacatattgg ataattgaac actgcagaag 360  
 ttgagtg 367

<210> 16468  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16468

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 aaaaacaatc ataaattaca aaataaaaaat taaaaaatca aatcacaatt tgtggctgta 120  
 caacaaccac cacacacgtc caaggcaaga gattcagatt gagggcccaa ttggtggcta 180  
 gaacaacggt gttgctggca aagttcaatg taatcactga caacaccatc atagtcaccc 240  
 aacgcatcat caagaagctt ncaataggga caaatctcag gctcacaat tgcaagtcca 300  
 cccccgcaa gcctccacc tacacctca cagatctggt tgcgatgta gaggcacca 360  
 tcggaagaag aggcaatggt gcacaatgtc aaggttgagc caat 404

<210> 16469  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 16469  
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 ataactaagc tcacctcctt gagaggcttc cttaagaaga ttcttaaaga agctagagct 120  
 taactacaca tacctctcta atagctaagc ttacctcctt gagttgagaa gctagagctt 180  
 agctacacac ccctataat agctaagctc acccatgaca aaaaacatga aaatacaaaa 240  
 aaaaagtcct tactacgaag actactcaat agaatggcca aaatacaagg ccagacaaa 300  
 ggaaaaacct attctaatat ttacaaagat aagtgggctc atacttagcc catgggctcg 360  
 aaatctaccc t 371

<210> 16470  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16470  
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 tctactatca ttgatcttca agaagaaaag gactccattg atgaagaagt ttcaaggcgt 120  
 acaagctcca catggggcta catcagacag cgtcgactgc gtcacgtcac cagaaaccac 180  
 caagtectcg gcagcatcca ggtggaacct cccattcgtc ggcgagaacg agtgtgctag 240  
 catccccaag ctcccgctga acggctcccc ctggctgtgg tcaccactga agaaccgat 300

cctaattgtcg gtgcttgttt ataaataagt gcaacaagtt tttctttcat tgtgnctctc 360  
 ttgtgtgcct tttccatctg caacaaagct tgttcta 397

<210> 16471  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 16471

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 ttgataccgc tcacggttcc ccgacgcgta ctacccgcaa acatggagtg tcaactcctga 120  
 ggtgcccatt gaatgaactt actttcattg attgcgttga gcttactgac cgctctccag 180  
 tcgtaactgc tgacaggccc acttgcttat tgagaactgc aaccggaacc cg 232

<210> 16472  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16472

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 gggatgacat tacattntgg atgggtaatg gcggagcata tggttcttga atgtgatggg 120  
 ttcaaggtaa gctgataaag cccatgactc acttcaactg taccaatctt cacttttggtg 180  
 ttgatatacct gcaaaacaca agtattagag gagaagatta actcggagct gtttgcgga 240  
 atgagtttgg atatggatat gagattaaag ctaaaagaag gtatgtatag aacatctttc 300  
 aatgtaattg aagagggtgag atggacggtt cccgagtggg tggcatgaac ttcgtgtcca 360  
 tttggtaact taactagaat gggtttaatt tggatgatatg aatcaaaa 408

<210> 16473  
 <211> 164  
 <212> DNA  
 <213> Glycine max

<400> 16473

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gtgattccta ggggtgtgtgg ctataacgcg gtcgtaagag acctccgagt gaaataggtt 120  
tacgatcaca attgctcacg agctaccatt gtgcaagctt tagc 164

<210> 16474  
<211> 130  
<212> DNA  
<213> Glycine max

<400> 16474

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atggagacgc tcgaaagtga acaatcgaag cttttgacca attaacctgg tcataactcc 120  
taactaagat 130

<210> 16475  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16475

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gcaagcacga cctgctgcac ttgcacatac atcgtcatcg tattcatccc cttgcttttc 120  
ctttgcaaatt gctgctcaat tgttcataca aaaatatgct cctcacggaa taaagaaaga 180  
aaaaataatt gttataataa gttttttcct gtttataatc tttttttttt ttttaagtta 240  
taaggagttt tgctgtgga agtaaaccat catttgacat ttaaattgtca atttttgcta 300  
tatagaaaaa tgcatttttt aaattaatta tgtagaaaat atgaagccgt tttggtaaaa 360  
cattcatcga taacattgta attataaaca agttttttctt tacagatatt taccoccttt 419

<210> 16476  
<211> 161  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16476

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tgatgccgca tagttaagcc agccccgaca cccgccaaaca cccgctgacg cgaacccttt 120



gcggncngat tgaatttacc ttgttataat gattgctatc g 161

<210> 16477  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 16477

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gatttcagca gatgttaaatt tatttgacac aaatcacatt agtcaaagta ataaaacaca 120  
aaacacttgg acttatgcac ccaaataaac ttagatagcc atgacctttg gcagttaaaa 180  
aaagaattgg tagacacatg atttcaaagc cttcaaagaa ttaatgttaa ctactctttg 240  
gagtcataaa agaggaaaat ctgtaaaatt aaaaagtggg ctaggggtgg taattagtta 300  
cactcaccaa agaatgttgt ctgttgactg tgcattgctat taataattaa taatatacta 360  
aaaaaaaatc aaaatatggc accacccttc tcatgaagag cacaggat 408

<210> 16478  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 16478

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cattgggaga tataatgata ggggtgttgtg tgatatgggc ccaatggaag cgacccatgt 120  
gctgttagga agaccgtggc agtatgatac caaggcagtg catgatggct tcaccaacaa 180  
aatctctttc aagcaagatg acaacaaaat tgttctcaaa ccgttatctc cgagagaggt 240  
ttgtgtggat cagataaaaa tgagagaaaa gaaaaggagt gagacacttg agaggaaaaa 300  
gagtgaacaa cttgagaagg aaaagagggg aaagaaaaag agtgaaacac ttgacaggga 360  
aaagagagaa aacatataga gtgaaacact cgagagggaa aagagagaaa aca 413

<210> 16479  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 16479

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 tattcctgat aatgatcttt tgggtataata atacgttca acactcgtga tgcatacaaa 120  
 taggttaaatt taggaagttt ctttgaaaat cgatattaac acggcttttt acactatcta 180  
 taaataatgg catttttata gacatcgtga tacctacgat ccgttatgtt gcggaactcg 240  
 ctttaaaaaa gtgatgcgcg tggcacctat tgtcatcttt gcgtaataaa tcgcatttta 300  
 caccactttt ctttggcggg tattgaaaac ctccatagaat ctatgcttaa taaatttacg 360  
 ccggtcttat aaa 373

<210> 16480  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16480  
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 tccccaaatc ccttataaat gtaaagatcc aggtacattc aacatacctt gtattatagg 120  
 gaacaaggag tttgacaatg ccattgctaga tttaggagct tctattagtg ttatgccttt 180  
 gtctatTTTT aattctctat ctcttgggtc tttgtagtca actaatgtgg tgattcattt 240  
 agctaataga agtgttgcct atcctgctgg tttcatagag gatgtcttag ttagagttgg 300  
 tgaactaatt tccctgggtg attcttataat ttagaatatg gaggaaggat tttctcatgg 360  
 atcacttccc atcattcta 379

<210> 16481  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 16481  
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 tgatgtatga ctgatgtaat atcttgctta tctgagaaat tagcagagat atgcctgaga 120  
 gtaggctgtc tctctcttcc atcttttctc tatatatattt gtaatcttac caagttatga 180  
 ataagcttag tgagagacat tttttcctca ctcaaatttc aagcttcaac tgtttcatta 240  
 atgctgggag taatttttgg aaaaatacat aacttttaga caaacttaat gttactatat 300

taactaattt ccttgtgaat cagttaattg ggtcttccta aaaggaccat agtaaatatt 360  
actgggattc atgtataaac cagagtgaat attatgta 398

<210> 16482  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 16482

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cgagcataaa tcatacacca tgcaagtaag tcccttgatt ctatttctct ttcttatgtc 120  
ataactatag ggtagaagac attaactgta gcttgagatt tctatgggtt atatgcttag 180  
ttagaataaa attaagatta cggctatgta agcttgata ctgtattgat tatggcgcac 240  
acatagtatg tatgatatgc cttttacagg cttgaatagt gcgagaaaat gagatatgtt 300  
ccctgcattt tctggaaaac gcaatgaa 328

<210> 16483  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 16483

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tgcttgacat gggtagggat gttgtttctc cataattgag aacctaataca aagaagggtg 120  
gggttttgtg aatatattct cgaactacca gttcaagatg tacaaggacc ataactgttt 180  
tcttaaattc tgttgttttg gcaacataac atttatgcc aataattttca ttacgtatgt 240  
aaacatattg cttgtgtttc ataaaattac aattacttct tcttgtatag tccctcccc 300  
taaataaatg tatattgcat tttaatctat tataacataa atgagtttat taataatgat 360  
gaacaagcta taaacgaact tttcaaatat gcatttttcc tttcaactcc 410

<210> 16484  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 16484

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gccaggcatt tccgaacttg aaagatctgg tgacaaacct cctaattatt gcgtccaatt 120  
ggatcattat acgagaatgg tcggactttg aagtgcact actacatata ttgcaagtta 180  
tgacatatta actctgaagt ggcatggttt taatcttaat gactacatac gacgatagtt 240  
aatgactaat tctcatagaa tgcttgctta aattttatga atgattacaa tgaggggctt 300  
agaaagaccg tc 312

<210> 16485  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 16485

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tattcttggtg gctatgattg tggattagat gatagtattc tgagaaatta ccgtactttt 180  
gaaataatac accttaacaa aacaagaaaa tgaaagaata aagcattttg tgccaaaaga 240  
aaatacagat tttgcatggg ccacacaatt tatttacgtg attttttaca agaattgacat 300  
atggagctgc tgtttcagca tatggcctat tctatctatg cttatgggtt tgcacttcag 360  
tcaatacaat aatgaaccat aatacacaga atgccaaatg gattt 405

<210> 16486  
<211> 531  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16486

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caaaaaaaga gggatttgat gcgtcgttga catgcacact atanaatata caagctcgac 120  
angtataatg actctcgcaa atgaatcacc ctttggtgag ccataacacc aaaatacacg 180  
agcggtaacc agtgcacaca taccaagtat agacaacaaa tgacataaag tgattatcat 240  
tagattaaac atgcactgat tcaaactcaa ggcacacaaa tagcacacac ttagaactaa 300  
attatacctg tgctcccaa ccaccaacat gaatagtaca gatgacacat tccacatgcg 360

aaaattcacg ccgcgagcaa aagaatcacc agtaatcgga gatctcaggc ggccaacgaa 420  
 gcatcccgat cgcacaacaa gagaggagaa acgagggaa accctcgcga cggaagacgc 480  
 ggcaccagca acagaaacca tcgactacat ccctggaagc tctcgagaga a 531

<210> 16487  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16487

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 cattcatgtg ctactctctc agtctctccc tctttgtact cttgaatctc tcttgctccc 180  
 tcaattattg atctttctct ctactctctg ctttctgttt tcatgttctg actttggcct 240  
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 agtatctacc ttgtgttctg acttcagtca cctgagactt cattctggac tatctntctg 360  
 ctctctgttg ttcaatactt tcagtattta ttatgacttg tatgtgaact tate 414

<210> 16488  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <400> 16488

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 ccagttctgt acttgatca tggagtgtgt ttcttccact tccttttagtg tggcagtcga 120  
 tggatccatt tatggctact tcaaaggaca gcgggggtctt agacaagagg atcctctctc 180  
 cccttatctg tttgtgctct gtttggagta cttttccaga gatatgagca gcctcaagga 240  
 tgatgccaat tttaaatttc atcccaacta tgcagggtatt cagctatctc atttggcttt 300  
 tgcagatgat attatgcttc tatctagatg agatatccat tctgtgttaa ctatgtttgc 360  
 caagcttcag cacttctgta gggtttcagg gctttccatc agctctgata aatctg 416

<210> 16489

<211> 410  
<212> DNA  
<213> Glycine max

<400> 16489

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tatttgtcaa gtgtgtggta aattatTTTT ttaaccatt atattggtat aaaattgttt 120  
ctactaaaaa atggtgacaa tttttcattg gaaaccttaa atgcatataa gatgagtatc 180  
tttcttttaa tatgatttat tctatacata agtgcgatca tcatttagat gcctaaaaat 240  
atgtatttct ttgattgcac ttaacaaatc cagatactag tgggtgttat ttacgatgat 300  
cacttgattc tttgctaaac acataagatg ttgatgagtg ttccataata atagggatcg 360  
aaaacaaatt ttcaactttt tgaggaatga aagtcattat ctgttttata 410

<210> 16490  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 16490

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tatgcttgaa actaaactgt ttggactcga gtctttgaaa gacatgtatg tgcgatgatg 180  
ggactttgct gatatttttg ctgcatgtga aaagttttct gaatatgggtt actatatgca 240  
taatggattc ttgttaaagc aaataaattg agtgtgccta agtgttccat tatagagttg 300  
cttgtgagtg aatcacatga ggggggggtg atgggacact ttgggggttca aaagaccctg 360  
gaaattctgc atgagcattt tctttggcct catatgaggc gtgatgtgca taa 413

<210> 16491  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 16491

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gcgcatgtcc acttgtaact ccaaagtatc aaacctttca ctaacaaagg tttgaagacc 120

atcgaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180  
 accaacaatgt cgagcaccct ttttcaccca agagccatca tgctcttttt gataacccaa 240  
 ggatgcaatg actgaagcgc ctattagaaa ggatctcttg attggaacat agggtttaga 300  
 atcaagaggg atgctaaagt ggttaaggaa gagggtgact atgtgtggat atggcaatgg 360  
 agcattcaat cgcaatgcct tatgcatgag atatctaaca agatgtgcct aatca 415

<210> 16492  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 16492

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 gtgtttgtgt cagatctcat aatgaccacc acatatccat tttcatgagc aacggatcaa 180  
 gccactgca aaacatcatt tcgggtacca aacacctaca acgcaatcca tacaatttta 240  
 gtcttctaag ggacattgat tttatgaaat taataacaat aatcaacatt attacttgag 300  
 aagtattgaa cgcatccgaa caatcaacat gttgatcagc ctttgctagt agtgaaggat 360  
 caaataccat gcagcttttag ccgaaagaca tataggtgat tattatcttt 410

<210> 16493  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16493

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 aaattaccaa tcagagagga agcaaaaaaa ggagagaagg aaaatttcca atcaaaggaa 180  
 aggaaattcc caatcaaaga gtgggagaaa gcaaaaagaa aagaaagata attcccaatc 240  
 aaagaatggg agaaagaaaa aaaggagaag taaaaaagaa gaaagctcct gttcaaagaa 300  
 accataagaa atgtgcagag aggtcttttag accggacaat atctgaacaa tatataattg 360  
 tcaccaaagtg aacaaaagga aggaaaggaa accacgacct aaaatg 406

<210> 16494  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16494

tccagctccc agaataaaac caattgcttt acaatttggt ttaaaaaat catttggtca 60  
 tatttaata aatttggtta taagtattta taagaaaaga atctcatata ctaagattaa 120  
 cttgtgcgta agtaaaagtg actttttttt aatagaaaat aaatgatttt ttcataaatg 180  
 attgtaaata taaattaatt taaacttttt ttctccctta ttatatagta taagagagtt 240  
 tacattactc ttatacttat atataaaaac ttatccaaac aaaatctaaa taactcatgt 300  
 atgattttta caciaacctc agtccattac aaaaaaacta gacactctgt gtcgttaagg 360  
 aaaaaagttg aacgatcatc taatctattt agtaatgaaa acgggttc 407

<210> 16495  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16495

tgttaaagta attgacatgt gattntgtta tatattgatt cagttgtgca acagaaaact 60  
 aaatttcctt ttaattcttc aatttaattt gtagggggcca actcgagcac ttttggctgc 120  
 aacaattggg aacatcctag gatattcttc aagtgctagt ggaaagtgga acaagtgaga 180  
 ctttgcttat atcttgctgt tatttcatat tttgtacat agctatatat gtaaagtcca 240  
 ttctgcatat gtttttccct ttaattctgt tgatttggca catcaacaaa gacacacgag 300  
 gagctatgag ctatctctat ttcccataga catgtgcttc taaggctctat aaattacaat 360  
 ttccatgaag aacgtttcaa ttttgatcta attaaacttt tctataca 408

<210> 16496  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 16496

tcctcgggcc attcctgcga aggcaaacat ttggaaagtt agtttacaag aaatataaca 60



atcattacaa acaagggcca aacaacactt ctcatggcac gagtgtcaac atgcacttta 120  
 taaaataatc atattgggggt cgtgctatth tatgacacat acgtattttgc acacataaaa 180  
 attttgtgtg aagcatttta cgacacctat tcatgtacat attttttgac aaaccttttc 240  
 atgctacatc ctatatatat atacacacat tttttggaag gcttcttttg ttacctactc 300  
 acaaatacac acattttgaa aaacactttt acgctaccca tccaacactt tgtaaggcac 360  
 ttcatgctat atatattcat attatgcaag gcattttcat gctatatatg ttcatat 417

<210> 16497  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16497

tcgaattgct caagtatctc ttctcctttc aacattttca actgccaata aattcagcac 60  
 ttctgtgtca gtgctaccta tctcaacat taaaaacatt caatacatat cattaatatt 120  
 aaaataaagt tttaaggaag attgacaaac tatgcatata ataaacaaac accatatgca 180  
 agaataaaaat ttgaaactag tttttgcata tgagcatatc aatatgcatg aattgcaaatt 240  
 atacctgaga gacagagaga aggtgggaaa gagcgtgttg gtattgagca tcattgttat 300  
 ggagggattc ttggactttg ttgggtgttg cgtgtacaag cttctgaatt gcgtgggtcga 360  
 tgagctcana ccttcgatct tgttccatgc ttgtatattg tttggacttc aataat 416

<210> 16498  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 16498

tttctcagtc gtctgtaagg atgattgggt gtcataaagc ggcatgcct actgtagact 60  
 gtttttctgt catgtttaag ttgtatgtaa cttgtatttt cttcacagat ggggcatgca 120  
 tgatgaccct taacactgta accgttgaga ttcccatatg ctggaaagtc attaattgta 180  
 caaaaaagca ttgcacgcat ttcaaaggtc tccttgcgaa acgcatcaaa cactactacc 240  
 cctcgtccc acaactttct cagatcttca accaacggac ttagataaac atcaatgtca 300

tttcttggct gtcttgagcc cgatatcatc atagacaaca tcatgtatta tcgcttcatg 360  
ccaatcaagg aggcaaattg taaattacta tcagaactgg ccatgaactg tg 412

<210> 16499  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 16499

tgctttatct aggtgggggc atgcaatcag tttaatatgt tgctggggat ggatatccag 60  
cctttttact gaaatagata ttatagagaa gcatatcaac aaaaagaact gaaaaaaaaat 120  
taaaattggt gattttcatg tattttcctt ttgttgttt atctatttca cctgtcccc 180  
ttaaataata ttttctaat atatcttact gtttccactt ttgatttttg tgacctcat 240  
ttgaaccact ttgttgttct ttacaggaca aaattgaatt aagggaagga tcttggtttg 300  
aaccattaaa agatatggaa ggaaagctag tgggtcttgg tagtaacca ccttatatac 360  
caagtaaaga catctctggt ctacaagctg aagttggtag gcatgaacct ag 412

<210> 16500  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 16500

tggataaata taagccacgt ttgattgttg atgggaatat ggaatcttcc caaacaaaat 60  
catgattatt tctggcaatc tatcaaaatt atgtgtagta taaactctca aatttgataa 120  
tatatgattg gtttattacg ggaagaaaga tgcgggatcg aatacctttt gtttttggag 180  
aaaattccaa tacctttgtg attgacacta aatattgatt tgttgtttta attgtacgca 240  
ttgggtccgt taacgtctaa atctatttcg gctgagatat cgagggtgtg attggttgga 300  
cattagcacg ggacccaag ttgatgaaag ttgacaatga gtgaaaatca gaaatggtag 360  
ttacgtctgc atctttatta agattggcct tt 392

<210> 16501  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16501

ntgacttgag tcatcaaaag attataaata tgtgactcat ggcataaatt ttaagaagag 60  
atgaatcgtc tatctttcaa tcttctctca acatcattca atatctttca actctttcta 120  
gagaattttc tgattctttt tcttttcata tttctaaaag tttttgttca aaactttctc 180  
ttccaagaaa agctctttgt tcaaaaactt gtgctattca tctttttcat tctcttctct 240  
ctttgccaaa agaacaaagg actaaccgcc taaattcttt tgtgtctctc ttctccttta 300  
caaagattc aaaggactaa ccgcctgaga attcttttgg ttcttacctt ccccttaagc 360  
aaaagattc ataggactaa ccgcctaaga tatcttttgt tccccttaca 410

<210> 16502  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16502

ntgccgattt agttttcgcc agtgaaagga tcgaagtggg tctgagaaga ggcaaatttg 60  
attatcctgc tttgataaat aggaagccta gggaaaatgg agagaataag aagggggtag 120  
aaacccgtgt tgtgactgtc attcctacat ggccaaattt ccactgggt caacaatata 180  
aatactcagc caatatcagt cttcttatt acccaccacc ctaccagcca agaacaccca 240  
atcatccata aaggccgcc ctaaatacagc cacagaacct gcctgctgca catccgaggc 300  
cagacaccac ctttaatacg aacaaaaaca ccaacgagag gaggaatttt ccagaaaata 360  
agcttgtaga attcaccoca cttctagtgt tgtatgctaa cttactccca tatatac 417

<210> 16503  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16503

nttctgccag caagattggg agagtcttcg ccaaattcat ggtttaacaa gttatattga 60  
gctgtctagt tgggcacacc aatacaaggc tgggacaaag agggaccttc ttggcaagct 120  
cagcaaocat agaaggagc atgatacatt aaataccaaa catgccagta aggcttcaca 180

atgaatccaa tcaactcaat tagtttgaaa cttgactggt taatttggtg aagttggtgg 240  
atgaattaaa gtaactcaat ttgagttgaa aattcagctc attaaacaaa tgggctgac 300  
ttgaatcatg tatagttagt ttggtttgat tgttatatga aaaaaatatt tattctaatt 360  
ttgcttatgt tgaatctata ttattaattc ttaaactaca ctcg 404

<210> 16504  
<211> 411  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16504

ttcaacaaga gtccctcacia ataattatca tgaaacagaa aactagcaag actaccatc 60  
atatctccca aaaccccata cccacgaaaa tcaagagggg aagaagtcca cccaaacctg 120  
aaatttcgaa gtccctactcg tagacacgca cttcacgacc ccgaaaatgc cctcctttca 180  
cgatttgggg cagaaatgat ggccaaaggt tgaagctttg tgtggagctt caatgggtgga 240  
tgaggaagag agaaagctac gtgagagagg gagagaaaag gcttctgaat ttttttgggg 300  
ctgagtgagg agagagaaca tagctttttg gttttaaata aaaggggttct ctctttttct 360  
attattntat ctaagcaatg ccacatgtct ccatttgagt gggatccaaa g 411

<210> 16505  
<211> 410  
<212> DNA  
<213> Glycine max  
<400> 16505

tcttatccaa ggcacatgct tgggtggtgaa gctccttctt ccatggctta ttctctattg 60  
gatgggtgct cccgtctcct cttctccttt gccttcgct gcctctccat ggtgaaaaat 120  
cgccattgaa ggatctcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180  
agcttccatc aggtccaac atatatgtta ttgaattttg tgtctggttt aaaacaagac 240  
caattttatg aaaatatcaa tgggtagact gtgagaaaag ttcaaaacat tgaggctggt 300  
ctacaaaacc cataattatt gcaagcatct tcaccattgt ggttcaaaat ttctaataa 360  
acactcgat aaaaattatg gaaaacatat tgcgtagatt cacctttata 410

<210> 16506  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16506

tctagagaaa gctacatgaa gatacctcgg ttatttcgct gcccagcctt cgttaaccgt 60  
 tgggtgcttct cgaaattngg tctgcaactt cacaagacac tcgtccatga tctgactgtt 120  
 gggatctttg ataagttgtc tggagtgtgc tagaagcctc ttaatgaagc ttctggagga 180  
 agcctcttaa tgaagcttct atagaaagct acatgaagct gcctcgtgaa aaacgcttcc 240  
 cagccttcgt taattgttgg atattctcaa aatacggctc gcaacttcac aagacacttg 300  
 tccatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctat aagcttcogt 360  
 tcccgaagc atctcgtatt caagcacttc agcctttgct ttagt 405

<210> 16507  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16507

tcttcttaaa caaggttcca gtgtaatat gatgtgctat aatgatctat aaatagctaa 60  
 tactaattaa taagcatagt ttaataaact atattgtcct tgaaatatct ctttattaaa 120  
 ttataagata attattataa aaacaaataa ttttacaaga tatagggact tataattgta 180  
 tgatcatata ataacctgta cactccaata tttctattgg ttagtcttaa aaagataaaa 240  
 ccaaatttac aatgaattta tatcttcaaa attaaaatca tgaaataaaa gtttatctga 300  
 tgaataaaca actagttgac tttacacaaa tataacgatg gcatattaat aattgtttaa 360  
 atctctatta gcacaaactt tttgttttaa 390

<210> 16508  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16508

tattgataaa ctctctagtg tctatatggt ggaggtatgt atatatgcta gataaagact 60  
 attaaaaaat gtgtagaacc ttctattttc tcaaagtgtt ataagaaatg ttaattagta 120  
 atggagaaca aatttggttt tggcatgatg tttggattga aaatgatagt ctaatntatt 180  
 ttttctcgg ttattttcaaa tcttttggca taaatgagag atctctctca tgtttttatt 240  
 tttctccatt tctcaataga tctttttaag ttaaatacaac ttacgatatt ttatcacatt 300  
 cttagttgta gtcaaaggac ttcaaactct tctaattctt ttatccttaa ttatttttag 360  
 aagttttgca cccttcaagg tgcttgtgtt ttcttggcac gttatcatga at 412

<210> 16509  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16509

nttcttgatt aaaagaatag aagatacaaa atacattccc attatctcag acaaaaacag 60  
 aactacattg cttgaagatc cacttccaac tcttgaaaca gcaaaaaaga actgcatgca 120  
 accccaaaaa tgggaagttag gctttataac aagtcaacaa tacaaaactgt atctcttacc 180  
 gtatttagtg aagccaaact gtacctggac acatgatata ggactagata taatcatagc 240  
 cgaactctta aatacacaaag ataaatctca aatcaaccac aaaagaagaa actttcttga 300  
 agttacactc aaaactgaaa gaagacgttt catgggtttac accaaataat aaagcttgtc 360  
 caagcacaga tccttctaaa ctaacagtaa ctcatgacat atagtaactn gctataat 418

<210> 16510  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16510

ttgcctanaa caaatgggta ccagaagata attttgaaaa aaaatctttt agaaggggtt 60  
 tgaaatttga attttaaaagc tgtaattgat taccattgat gtgtaatcga ttaccaacaa 120  
 cgaaactctt gaaattcaat ttgaaaagtc atgatccttc aaaatataat tgtgtaatcg 180  
 attaccagaa acctataatc aattactagt gaagaatttc agaataagct ttttgaaaag 240

acacatctct tcaaaccatt ttgaaaaggc acgaagggcc tatatatatg tgtgtctgac 300  
 ttcaaaaagt aagagagaga tattctaaga gaacttcatt gccaaattct ctctcaacaa 360  
 ctcttgggca aacacttgta aatctattga gacttcatcc aggaatttca aat 413

<210> 16511  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16511

tatgcgcata tttccctacg aacgttcact tgcactagac atcctattaa ctaagaaaaa 60  
 tgcaccata tacaatcaag gtagcttcat tacctagatt atttacctgt acttccaagg 120  
 tgtatttggt attacatcac acacgcctcc ttggctaaat ttacatacat gcataactcaa 180  
 agcatttcgg ggtacaaaaa attgcacatg cgctcatctt ggtatttcta atacctatac 240  
 atatacaaac ttcattgatga atcttgacta cctacgcaat aagggtgctac atttcatgct 300  
 tttttttctt tttttttttt tcaagttttt gctacctaaa gccacatgca aattcaagca 360  
 tactttcctt tgctgactaa gattgtattc aaattagaaa gtatatattn tttt 414

<210> 16512  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <400> 16512

tgtctcgtgg tttcgataga gaacgaagcc caatctgacc ttcgcgattt tcatcaagggt 60  
 aaccgtgatt ctacgcttgt tccttgtagg tttcagcttg tctttgcatc ttttcttact 120  
 ttagaaccac cattgtatgt ttttgcgctt cctttgaaaa accctagaga aagagacttt 180  
 ataaaagtta tctttttatg aaatgggtgt tattttcgtg accttcgctg aacctcgatc 240  
 acattggcgt gatcggaatt ttaaaatgat gttccttctg tagaatctga aacgccttta 300  
 gccttttcat gtaaagacat gagtagttga ctcagaatat tattgttaac cttatttctg 360  
 atatccatag tactttcctt cattttggcg catagagact t 401

<210> 16513  
 <211> 184

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16513

ntcataagtg aaatcaggtg tagccatctc cctaagtgtc cttgatecgag gccgtaccgg 60  
aatcaaataa acattaaaaa tgcagtatct aggaagtgat ccaaggtcgt ctcccaacga 120  
gcaatgggta accaaacggt cataacagat agtaataaaa tagtaacgaa ttgggggggg 180  
gggg 184

<210> 16514  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16514

nttatgctag cttatttaat tagtggtgag taacttttagt cttcaaaaca gctgaacgat 60  
gtataatgac agaactcgac acatttataa gatactttat cataaatcta aattttatatt 120  
tgtgaataaa cacatatctc gaggtgttat aatcatagta tttaaataaa ttttaaactc 180  
ttataatttt tgatctaaat tgtaattttg gtcctacctt gttacccaaa tacatgattc 240  
tgggtccatat atatttttga tgtgacatat ggtccacata gatataataa ttggcgattt 300  
tgggtccactt agaacatgat aactaatgac ttcaaataat aaagttatta tatgattcta 360  
taattaatta aac 373

<210> 16515  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16515

tatgaaatca atggaatcca agatttcatt taacacaagt cgttcaattt tgttcttaga 60  
aatgtgacct aagtgttat gccataatgc tcttgagttt gtattatcaa ttttacgctt 120  
agtaccacgt aattccgcat taaaggattc accataagaa gctacaatat caagtaaata 180  
tatattatca taagccaaga gtgaaccagt tccaacaata tctgaattaa aagacaacct 240  
aatcacgttg ttttcaaattg aacacaaata acccaatttg tccaaataag aaattgaaat 300



caaattcctt ctaaatagacg gtacaacaaa agtatctttc atatccaaat gagaatcagt 360  
acataataat aatctaagat gccctataac 390

<210> 16516  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16516

tgcctcaaag aggtccagga aggacatggc agcctataga actagtccg ctccggagta 60  
tgatagtcac cgcttttagga gtgctgtaca ccagcagcgc ttctaggcca tcaagggatg 120  
gtcgtttctc cgggagcgcac gcgtccagct cagggacgac gagtatgctg atttccagga 180  
ggaaataggg cgccggcggg gggcatcact ggttactccc atggccaagt ttgatccaga 240  
aatagttctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300  
atcctgngta aggggtcagt ggatcccgtt tgatgccgac gctatcggcc aactcctagg 360  
atatccattg gtgttggaag agggccagga atgttagtat ggcc 404

<210> 16517  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<400> 16517

tgaatctgaa gctgaacaca ggcagctgac ttgcttagaa aatatgaaaa ggaagaagct 60  
gcagcaagat ctttggtcag cagcccaagc tcacgagtct ttattgagga agaaggcgag 120  
atcgcgttgg attaatgagg gggtagata tctcgatatt ttcacctggg gattaactcc 180  
catcgaagtt tatagctttt tccaacagag atttcaagaa actatgagca gcagaccagt 240  
tttgaatgac acctcttttc aagaaacatg ttctttgggg aggctactat gaaaaatgtc 300  
aagactatca aattgatttt gagagctttt gaattgtcat caggacttaa aatatattat 360  
gggaagagcg gctttgtggg gttgggcaa tctgaacaat gga 403

<210> 16518  
<211> 415  
<212> DNA

<213> Glycine max

<400> 16518

cttcactcgg agatctgatt caggcgcata atatatcgag acgcttgaaa atgaacaacg 60  
aaagctctcg agaaattcca atgctcatta tctttaactc ggaggtctga tttaggcgca 120  
taatatatca agacgctcga aattgaacaa cggaagctct ctagaaattg aaatgggtcat 180  
aactttttcac tccgaggttc gattcaagtg catgatatat ccagacgctc gaaattgaac 240  
aatagaagct ctcgagaaat tcaaatggtc ataaccttta actcggaggt ccgatttatg 300  
cgcataatat atcgagacgc tcgaaattta acaatggaag ctcttgtgca attccaatgg 360  
acataacttt tatctcggag gtccgattcg agtgaataat atatcgagac gatcg 415

<210> 16519

<211> 409

<212> DNA

<213> Glycine max

<400> 16519

caaatgcgga aagtttacgc ctccatttcc cggatatgctt acactcaaag tcataaggga 60  
gccatggagt ggaccttccc tccatagtaat attcttgcag ctctaagatt tgatttggct 120  
tgtgtgcctt agtttctttg cttctgttca ttttgttttt cttcatttca tatgtacaaa 180  
aaaaaaattg gtcaaaactaa tttataaact aattaaataa acttataaac tttctcatta 240  
cttataagct agttagttaa atgggtttac aagctttccg agtgtgtctt accaaactca 300  
ccaatacata atcattttta aaatatacag ataggaactg atatataata ctttagattt 360  
taaaattaaa acttttttga taacttgtgc attacaaatt atataatat 409

<210> 16520

<211> 415

<212> DNA

<213> Glycine max

<400> 16520

tcaagcaata tcaaacattt gaaacaactt cctcactgca tatgagcttc ctaagtaatg 60  
aaataatttt cctaataatt acaagcacia ttccaatggt aagatacaga tcacaattaa 120  
tttaaatgat aaatgaatca gtaagaaatc atttcctcgc tgtttgtgaa agtgagtatg 180

aacacatcat ataaatatta ttgaaaacat aaagatctaa tacagacctc catggccgtc 240  
 ataaacacca aagtatgacg tagactcgtc caaatatgga tgagctgcat gctggcatgt 300  
 aatgtaaaag aattaaact tgtatacacc atcaaacaga ttgtaatata ataatgggct 360  
 actgaagatt taagtacaaa gcatcaaggt acaccaagca ttgacatcaa atata 415

<210> 16521  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16521

ctcccagttt ttaagttctt cctcaaaact gccctactct tatttcccaa agncctatta 60  
 acaacattgc gtttgcccat cggtttgagg gtgacaagag gatgaaaata acaatttagt 120  
 gcccaacttg ctccacaaaag tcctccaaaa atggcttatg aacttagagt ccctatcact 180  
 aacaatgcta cttggcaaac catggagtct cacaatctcc ttgaaaaaca aatcaaccac 240  
 atgggaagca tcaatcaact gtcttacatg gaataaaatg agccatttta gaaaacctat 300  
 caacaaccac agaaatggaa attctacat tgcttgtttt tgacagcccc aaaacaaaat 360  
 tcatggataa atcactccaa ggaatactac ggaattgaca atggagtata caatt 415

<210> 16522  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
 <400> 16522

cggcaccttc gcctagtttg tgtgctttgt gtacctgtat tatatccttt gttctggaag 60  
 acggtgtatg atcgattcgt gcttggcatc gcagtgacta tctctagatg atagtcgtct 120  
 ttgcgtaaag ggcacgccgg ccgaaatctg tgttctatct gtgctgtact cttatatggg 180  
 aagagaggca tgaaaacagg ggcaactcgt aatgcgctaa tatcatccgg tgatgat 237

<210> 16523  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 16523

tgtctcagcg tttatgcgag acggagacca tctatgctag ctatcatcgc caagtaccaa 60

gaagagtttag gtctagccac ggcctacgag catagaatcg cggacgagta tgctcaagta 120

tacgcggaaa aggaggctag aggaaggggtg atcgactctt tacaccaaga ggcaaccatg 180

tggatggatc ggtttgctct taccttgaat gggagtcaag aacttccccg cttgttagcc 240

aaggccaaag cgatggcaga cacctactcc gccccgaag agattcatgg gcttctcggc 300

tattgtcagc atatgataga cttaatggcc cacataatta gaaatcgtta ggaaacttgt 360

atggtctctc ataccttgac tagatacgac ttttntttg aataaaatga g 411

<210> 16524

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16524

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ttccaatgaa agcaaaaaaa gaaaagaagg aaaattcccc aatcaaagag tgggagaaag 180

caaaaagaaa agaaaggaaa ttcccaatca aagaatggga gaaagtaaaa aaggaagaag 240

aagaaggaaa gaaagctcct gatcagggat cgaaggaaaa acagaagaaa tgtgcagaga 300

ggtctttaga ccggacaata tctgaacaat acagaattgt caccaaata acaaaaagaa 360

ggaaaggaaa ccacgaccta naatgggtctt ctccctttg 399

<210> 16525

<211> 350

<212> DNA

<213> Glycine max

<400> 16525

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atatgcttac taaagaagca taactgataa aaagctgtat gatgaacctc atccccatag 180

tgatgtaatc tccattggag cttgtatgcc taggatcctc ttcattaatg gattcctttg 240

cttcttggaa gatgaatggc agtggaatgg ataaggaaga gagagaggag atgccacttc 300  
 agggagaata tgagactaga agaagctcac caccatagga tgccatggat 350

<210> 16526  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16526

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 caccattgaa gctcaaagat ccagcctcca tagaagcttc acatgcaagc ttccatcaga 180  
 gatagtgcga ctgatgtca aaacaacctt tctccatgga agattggagg aagacattat 240  
 gatgcaacaa cctgaagggt ttgaaatggt agggaagaaa aattatgtat gtacgttgaa 300  
 aagggtttata tatgggttga aacaatctcc aacgaagtgg taccagagag tcgatgagtt 360  
 catattactc atgggtcaac aaaagtgcc atgatcatgt atca 404

<210> 16527  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16527

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 aaattgcttc ctataatgac caatttataa gacccaatag ggatttggtta tgttattgtt 180  
 ctgatgttg acatatctat tgttggttggt gttcattgat ttcttcttct tctatccgat 240  
 ttgtttcttc ccacaagaat tagttaagga gagagacaat aaaaaatgat ttttttaaatt 300  
 gcgcatttct tcaagggttt tctacaagaa ctcaatctcc aacgtgaaga ccttgagagt 360  
 gtctttagta gctagatctt agaagaacat atcttcaact taaa 404

<210> 16528  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 16528  
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cgaggcactt ccgtaacggt tccgtgagtg atttcgcgaa ggttttcgac tggttcttcac 180  
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cattctatgt acccgtgggt gtccacattg agtttcgtgt attttccttc tcgttttcat 300  
ttacttttcg tacccttttt gacgtgctta agccatttta ttttaagtcac ttctcgctaa 360  
acctacaata aaatatatth ccaccgattg ttagaattgt attatccg 408

<210> 16529  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16529

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attcaagatt gaatcaaaaa cacttcaagg atcaaaaagga aatttgattt caagaatcaa 180  
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240  
aagaatcaag agaagattca atcaagataa gtatttaaaaa gttttttcaa aatctgtgta 300  
gcacattaat tntttctaaa aaccttttac caaagaagtt ttactctctg gtaatcgatt 360  
accagattgt tgtaatcgat taccagtagc ataatgtttt tcanaaagct tt 412

<210> 16530  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 16530  
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aaagggaagg tagtggttgt tccttttaaaa attacctttt agtggagtat ttataatgta 120  
tatgatctta catggtatth atttgctcta gtgagtgtag acagaacata gagttagttg 180

agcaattaag ttcaccacct ccaaactcca gagttttgta ttttccatct ctttttccac 240  
 aaaatgggtg ggaacagttt aaagcatgct tgtggaaaca acatttggtc tattggagaa 300  
 ttccttcata caacttgatg cgcacatcat ttgtgcgtgt ctcatctctt ttgtttggga 360  
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<210> 16531  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16531

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 tgtagcacac aattatggat tttctctaata gacaacactc ttgcctttta ccaactctaata 180  
 tccccttgag ttcttaggaa attcaagaga ttatggccac aacaaagaac aattcaccaa 240  
 tatgtgtaag gtaaggctat agagacaagg aaaagggttaa ccaagaaaaa ggctaacaat 300  
 gtttttaggc acaatttaag gaaataaaat tcagaattta ggaattcaag taacaatcct 360  
 tcatacaacc aatatatttc cttaaagata tttttttttt taagttcttc aagca 415

<210> 16532  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16532

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 aataacccaa atttgtttaa agacttcaag ggtccatgt ctctggaatt tgagatgaca 120  
 gatatgggac tcatgtcata ttacttagga agggaagtga agcaaattga aaatgggtatc 180  
 tttgtctcac aagaaaagcta cacaaaagaa gtgttgaaga aatttaatat gcttgattgc 240  
 aatcccgatg acacacctat ggaagggtggc ttgaagttat caaagtttga tgaaggagag 300  
 aaggtagacc ccacggtctt caagagtcctt gtggggagtt tgaggtatct aaccaatata 360  
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<210> 16533  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 16533

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 tggattacca ggttaaccaa ggcattctagt ttaccttcaa gcttcttagt ctgactgat 180  
 gaagatgaat ttgtggctac ttcatgcact cctctaata gaatagcatc acttctagca 240  
 ctaaattgct gggagtttga agccatcttc tcaattaaat ttcttgcttc aacaggggtc 300  
 atgtctcaa gggctccacc actggcaaca tctatcatac ttctctccat gttactgagt 360  
 ccttcataaa aatattggag gagaaactgc tctgaaatct ggtggtga 408

<210> 16534  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 16534

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 aataaataat tgtgttaaaa attgcaaatt gaattgcgga atgcaattga agaggtaaaa 180  
 agataagaac tttgagacac ccatcaatga atcaatcgat aaaccctggg ggggtgttgca 240  
 caaccaaacc aaacacagag agagagagag agaaaccttt gaaagagggtg ttattagcag 300  
 ttaagagttc ttcttcatca tcgtcgtcga attcatcttg atgccctttc gcagacctag 360  
 ccatttggtt ctccagatga agagaagtgt aatgtaatct gtacaaccta cctag 415

<210> 16535  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16535

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aaggagaaaa aaagagaaaa atataagtat gatagaaaat ataatgtgat aggcaaatag 180  
agataaaaaa aaatgaaaat tgctagtggg tgttttaaat attacccttc gtatttttaat 240  
tgtaaagaat gaaaatgtaa gttaatgaaa aaaatgataa ttaatgcaat aaaagaacaa 300  
gtggatattt ttcgtactgt tggaaagttt ccgatccctt ggctcaattt ttgggatgca 360  
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<210> 16536  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16536

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aattaaataa tgtatatgaa ttgtgataga gggaagcttg ctgattattc ttcaaattta 180  
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attctatgag gatggagagc ccataattga tggggaatct ggagatttaa gggttagtaa 300  
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gaacagtttc gtatccgaac tgcacctcat gacgtcttca gaaga 405

<210> 16537  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 16537

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aatccttggg ttcattaaat taatcatttg attcctataa gtagtactta agatttagtc 180  
catatacatc cttattagta cacatcggtta cctgggtatta ctatgttcct taagttttat 240  
ccttatatcg atgtataagg accaaatctt aactatgctt ttcatacaat gactaattct 300  
taaatgaata tcaccgataa ggactaacta atttaaactt ctgatttgta aactccttcc 360

tattgttatg ggacatttct ttcaatgtct tctcaaaatt cttttgcac 410

<210> 16538  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 16538

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gctatacaca cctctctaata aactaagctc acctccttta gatgagaagc taaagcttag 120  
ctacatgtta gtcgatgaat acgactaact cttgtgtata aaacctatgt aaattggac 180  
aaactcctcc aatttatgga tattttgtat ggatgaaatt actttttgtt aaagatagga 240  
aataaatact tagtactccc attttgtgtg ttttaataacc atttctctc agttctaggt 300  
taattaggca agtttgtgaa gcgctgatta tcatccgctc gctaaggcaa tcttctggct 360  
tagcgagcca tccactgagc acaatactcc tcgactgagc gcga 404

<210> 16539  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 16539

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tcgtaatcga ttacaggctg cctgttcctg tgtaatctat tacactggat ggtaatctat 180  
taccagagcc taccctagga tagtttgtaa gagaatatct atttttatgc ttaaatacat 240  
actatatgtc taattctcct actaatacac ttaattcaac cattcaatta ctatgtgcac 300  
aatagcccgat aattgacatc gttaaaacca taattactac atgatcatc 349

<210> 16540  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 16540

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cgcccccaaa tgcacaagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180  
attcatalca tgcaccgcat aaacatctct tcagcatcat aatgaacata tcgttcctgc 240  
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atactttttg tttgcttata catgatcctt gtattttcct ctacaaaaca aaaacaaaaa 360  
ataggggaag tacgaaaatt cagctgcat tcttagttgc atatattc 408

<210> 16541  
<211> 279  
<212> DNA  
<213> Glycine max

<400> 16541

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tgattcatta ttcttcatct tacttaaagt ttttgaacaa tactttttatc tgtgaagaaa 180  
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agaacatagt gactaaccgc ctaggttcta ttgcgtttc 279

<210> 16542  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 16542

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ccctgtaa atctatggcatt ttcgtatggg tcaccccttt cccgaaagat tacaagccat 240  
gcaaacatac tatcctttct taaataataa caagagtttc atttgaata cttgccatta 300  
tgccaaacat aagaaattac cttttcattc tagcacatct catgcattaa atcaattcga 360  
gctttttacat gttgatattt gggggtcgtg ctccaaaaca tccatgcatg ggcaccg 417

<210> 16543

<211> 413  
 <212> DNA  
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 aatagaatta gacttgcata atatgtattt gagaattttt gtatctgatt ctc 413

<210> 16544  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
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 catgtattat atttgtagag ttagaaataa ttaattgaga a 401

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 <223> unsure at all n locations  
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 <212> DNA  
 <213> Glycine max

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 <212> DNA  
 <213> Glycine max

<400> 16547

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 gtacgtagga gcaagagccc cgcttttgtc gacctcaaaa attaaaaaag aaagaagagt 240  
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<210> 16549  
 <211> 405  
 <212> DNA  
 <213> Glycine max

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 <211> 183  
 <212> DNA  
 <213> Glycine max

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 aactaacaat gatatcgccc agtccagggg acataacaat tggctgcccc ttaacctaaa 180  
 cac 183

<210> 16551  
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 <212> DNA  
 <213> Glycine max

<400> 16551

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 <212> DNA  
 <213> Glycine max

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<210> 16553

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tttttacaaa atacataatt tcatgacaaa aaaatctaaa ttatccaagt ttctttaaat  180
tacagctacc ttctacacat atcaatgtat tttctctttt atctcttata acttggtacc  240
ttcatttaaa aaaaaaaca attgtcttgt ctcttggtgg ggcaacacta ttttttttgt  300
gggggcattt tttttattaa agatgtttta agtaaaaaaa ttgcttatgg tggcaattgc  360
ccccataatg ctgtccgcc a ctgtttagc ccagaaaagg ttcgtgct                    408

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<210> 16554  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 16554

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tcatgaagat gaatcatgta tgaatcaagt cgctttgatg atgacacaca gcacaaaaga   60
atgatttgaa gattgattca gcacgttcaa gatcatgatt aatttccaga ttcattagaa  120
gaaatcagca atattcaaga ttcaggagac gttgactcca agattcgcca aaagacatca  180
agaggaatca agattcagga gacgatgact tctggatgct agagacgaga tcaagaagca  240
cgcagtcacg acatcacatg ggaagtatcg aaaaggactt ctgacaagcc aaacatagca  300
cagttttgtt ctacaaaaga gtgctcgtag attgttctaa gtgaccagat tatgcactct  360
ctgggtcatc                                     369

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<210> 16555  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 16555

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taatttctaa ccgagagtat ttatttctcc agtaccatta ttcacgttca atatcgtatc  120

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aatattattg aaaattctag ggatatgatg agttgacatc aatgtcaatt ttagatctgg 180  
 ggtatccagg tcagcataca ccatcatcat gcatgcactt gaactttctt taatttcctt 240  
 ttgcaacatg gcaatcctta acattttgta ctacttattt ttcccccttg caatgtggga 300  
 attcatgaca tttttttgct ttgggtgaaa aatgattcgt tttctttacc taaccaagag 360  
 acatggtacg tcaagggctt cttgcctaga aaacgatgga tacacatg 408

<210> 16556  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 16556

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 gtagcaggag gaaggccagc agtagctagc cgcagataca ccgccaccac ctctacggca 120  
 gccgccatcc ctggagtcta tctctgctca cctgcgaagg atagagcttc agatgcacac 180  
 gtatgtgcag catgtgactg gccaataggt ggctaatacat aggggtcagg tgtagctaaa 240  
 tgagaccttc tatcagtaca ccctgcacta gcaaagctag gaccctggtc ctttttcgtg 300  
 gcttaccccc gagcagttcg gggccacaat tgcgtggccg ggagatgagc ccaattttca 360  
 gacaagggca ggactcgcaa gccccagag acaaggatgg agctcaggag gatg 414

<210> 16557  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16557

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60  
 cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtggggggg gtttttgttt 180  
 nattgnacaa cttgttttgt tggntatgct tnatgatgta ttttgggcca tactagatgt 240  
 acatgtgatc ttggttaaat gttggacatg ct 272

<210> 16558  
 <211> 405

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16558

tgcgcatgct ctcatcagtg gccagcctgt agaaccaggt ccacaacccc ctgacctcct 60  
tgataagcaa ataagcttat taacaccagt tgtgatggat gcaaccacctt ttgggtgtaaa 120  
gtttggggat tgtagctctg atgttcccaa gaactcgacc tttaagagag ctgacatggt 180  
gtctgttact ttctgggtctg cgtgccctcg taatgacctt atgactgaag gtacattttc 240  
cctgggtggaa tttctccaag gaaaggatat gtgggttcct gcttatgatg atgatgattt 300  
ctgcctgcgc ttcaagtggc caagaccttt canactcagt tctcatagta aagctaccat 360  
agaatggaga atcccaaagg atgttactcc tgggtgtatac agaat 405

<210> 16559  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16559

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caaccggggc atagtcggtc agtgagaacc tgtgatgtac cttaaagaggc gagctcctgg 120  
cagtcaacag ataaaaggaa caaagaccac aaagcaagga ggcttggtggg ggctggccag 180  
ctgtgaaact tgattgatat gtgagatatg gtctctggta atcgattacc aaggggtgggt 240  
aatcgattac aaggcttaaa attgaagaca ggaggctaag atgggtctctg gtaatcgatt 300  
accacggngt gtaatcgatt accaggcttg aaaacgaggt cagaaagcca tgagggcttc 360  
tggtaatcga ttacaaaggg ggctgtaatt attacc 396

<210> 16560  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 16560

gtagaccac ttttgtgagt tcgtgaatgt cttatatgtg ttctatatta atggatgact 60  
cactgcatat gtggataatg gcgattccca tgggtgggat aatctcagta caaggggtgt 120

ttgaagagggc catttcatag agtcgagagc taggggatga attctcagag aagaagttga 180  
 agtgtctcat agagtgtgct atgccaagag ttttgatgca acatgatctt attgtgtgct 240  
 ctccggcttt ttcaataact atcattacgc ccactttccc aaaatgagtt agcacagagt 300  
 atatatatat atatatccag ataacaacga attatcgagt gttgtaaagt ccagtggacc 360  
 atatgtcttt cgatgccaca gcggatgaca tatagatata caatct 406

<210> 16561  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 16561

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 aactttctct tactttatcc acaagttggg actcattaac attgactctc caacttgagg 120  
 ggggattaaa gttgtatgaa gaaatggagt taattacttc agttagaggg tagttagact 180  
 agtcggtaat tagttagaat gaagttagtt actaagattg ttaagctgga tataaaatag 240  
 tgtgtatgca accttatatt caataatcat caataatatt ttacagattt ccttgggtgca 300  
 caaagctctc tatcaataaa ttccccttcc ccaagtcac attgaagaat ctatcgcaac 360  
 tttagaatgt ctgaaaacat attatgtaca tacaaat 397

<210> 16562  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 16562

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 cagagcaaag tcagaaaact ctgctcaaac accaaccaaa atcacagctt ttctcactta 120  
 aagaccacag taacaattcc ttcgatccaa ttcgttaacc gttggatcga ctccaaaatt 180  
 ttactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240  
 tcaagaactc attctgtact actctttcca cagccaacca cacacaagca ttttctgcac 300  
 caagctaaaa tctgtctgca cctattttga cagcaaaaat tctgcataag tgcagatttc 360  
 gaagatcaca cttcccctca tccaatcttg ctcaaataca tcttaca 407

<210> 16563  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16563

ntaactgaat ttgcaacatt ccaaatgatt tttaattggg gtaatcgatt acaatatatt 60  
 ggtaatcgat taccagtgc tctgaacggt gaaattcaaa ttcaagtgtg aagagtcaca 120  
 tcttttcata aaatgctttg tgtaatcgat tacatgggta tggtaatcga ttaccagtga 180  
 caagttctga ataaaaagtc aagagatgta actcttccaa tggttttctc aagattttct 240  
 caaggttata actcttcaaa tggttttctt aaccagacat gaagagtcta taaaagcaag 300  
 accttgactt gcattcaa at aacttttaca acttttgaga aatcttgaaa cctttccttc 360  
 tcacttttct tctttcttct ttgccagaaa gctttctatg ttttctgt 408

<210> 16564  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 16564

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 ccctaagaga ggactaagac aggggtgacct actgtcacct tacctgttca ttctacgccc 120  
 cgagggtcta tctaattaa accctaacaa agacaacaat aagagaagga actcatggta 180  
 ttaagggtttg tagaaggact ccaatcctcc cacacctctt atttgcta at gattttttat 240  
 tttttttata ggagtctatt attcttatgg aggttcttac ttctttatgg caaaatctct 300  
 ggtcaa atga ttaattatca aaagtctgag attttcttca tcgacaacac tgaacacaca 360  
 attagacacc acgtagcatc tgtacttggt gttaacaaac 400

<210> 16565  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16565

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 ttgggttaga aattttgggtg tttgaaaata atagaattgg tgctttctga ttttagtaga 120  
 acttgggtcat tactctactg cagaattttct cctttaaact aaaatgtata aatatgccct 180  
 tattggccac atgaggcttc agctttgtgt ttccaagtag aagcactttt atttaatagc 240  
 cacccttttg tgtacttgaa gttgaatcca caagtagata aactcaagga gccagtcaga 300  
 aaattcactg cttangtaac caaaaccatc catttcattt ctataacgct gcttatgcat 360  
 aaaaaaact agaaacttat ccaaccacgc atcaataatc aaaccccag 409

<210> 16566  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16566  
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 tgttgataat tgattaacgt catgtactaa ttcaagctta gcaagaaaag taaaatctaa 120  
 tagtgccttc caagtgttca caagttaact agtaatagga ttaaaagggg cttttttctc 180  
 aaatggattg cacttacttt tagccccaca gaaaggcggg tgatttggtc taagttaaaa 240  
 ctgcactttt atccaagaca gtcaaattaa aattcataaa ctgtagtaaa aaccaatcaa 300  
 gtaatttgtt gtctttctgaa aatgttggag cttactatcc cttaatgaac acacatgaaa 360  
 ttgaattcaa attctgtcat ttttggatg 389

<210> 16567  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 16567  
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 cactggacaa ttattattgc tgaacgctta cctgaccatc tcgtgcgttt accacaatga 120  
 aggcttttct gtaatgaagc actctagcct ttgacacact gtaagtccgc taggttctta 180  
 tgccaatctc agacgatggg cagcttcagg agacaactgg cacatatccg tttatgcagg 240  
 ctagaaatac ttagcccaag ttagccaaga aatatgtca cactgttttg atgcacaaat 300

<210> 16568  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16568

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 ttgactatag aataaacaat ggccgggtgt cggttgctat atggcctcga ctgatatcct 120  
 tcagccgaca ttgcgcgaatt tcttttacia acgttggtcg ataatgtttt tttacggtag 180  
 aggaagtgtt ttgttttgct gttgcttaaa aaatttacia tgtagggttag ctaggtatgt 240  
 ccgtgcgagc tcaaccgaag ttgngtttcg gccgacactg gcatgttctc atttagtcga 300  
 ccaagataac gtttagccac cctggcacia aaaaaacatc attcacgaaa attgatcgaa 360  
 caaatgatag ctgacgtcgg cgtggagaga tgatgtgaat cttacgaggg agatcgcttg 420  
 atac 424

<210> 16569  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 16569

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 aaggattacc aaatgaggac ccctatgaac atttggaac attcattgaa atctgaaaca 120  
 ctgcaaatat tgcgcgtgat ccagatgaag ccattatact cgatctatat tcaatgtgct 180  
 taatcagaga agcctaaagg aggctacact catttaaagg gaacaatctg aaaacctgtg 240  
 aatgatgtta ttgaacagtt tgtgaggaaa catttccac agacaaagac tgagaaaggg 300  
 aaagctacia tctcttcgat ttgtcagttc cctgacgtaa ccttgaatta agcgc 355

<210> 16570  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 16570

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gtctcttgct gaaattgcat attctggatg gtcatttgcc tcactaactc ctctaaggaa 120  
ggttgagaag gggcctgact tgcttggtgt ctttgtcgct attgctgcat tggaggagga 180  
acatatggcc tgcttagact agcaacattc tagaaatgag ggacaaattg ttgttgctgc 240  
tgttggtgtt gtggaggatt tgcccatctc agatttggat gattcctcca acctggattg 300  
tatttgttgc ttgaaagatt ataattattc tgctgttgct ggtttttttg ttgagggggt 360  
ctattataaa tgtttgcagc ataggcttca ggttgctcat tgactccagg ttgctgcaaa 420  
gaaagat 427

<210> 16571

<211> 334

<212> DNA

<213> Glycine max

<400> 16571

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atttttctca gagcttccat tttcaattac gagcgctcg atattcaacg ggactcaatc 120  
ggacatccga gtccaaagct attgtcgcgc gaatttactt agagctcctg ttttcaattg 180  
cgagcgtatc gatataattat agggctcaat ctgacatccg aattagaagt tattgtcgct 240  
tgaatatact cagagcttct gtgttcaatc acgaccgtct cgatatacta caggacacat 300  
tcggacatcc gattcaaaag ttattgctcg taga 334

<210> 16572

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16572

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cctaggggaat taaaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacaaaaagt 120  
caccaccaac agccaacttc agccaccatt tggctctcca aaaggctgat gcctagggtg 180  
ccaattgggc ccttattaca acttgaacta aacctaacta aagccctttt agttgattaa 240

cccaaaacat attttgggtca gccaaacttta caaggattgg gccattattt agacaaaacta 300  
aacactctaa aattgagaca aagtgggtgc attcagtcct cctccatttg ggccatgata 360  
caactcacia ccttggactt ttctccttga aacttgnngct tgtattcaaa tagtatggac 420  
agcacttg 428

<210> 16573  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16573

agcttctgct tgtctagata tttctagaga gagaaaggct caagttccaa agagttttga 60  
gattttgctg tgcaaagacc tgcagagaac cgagcttgaa gaagaagtcg tcctgagagc 120  
atgagatgag tttgtgagtg attgcgaggt tctagagggt gaggagacat cctcaccgct 180  
tgtatttctt caatccttca tttttatttt ctctttgttg taaaggaagc ttcctagcta 240  
ttgagagtta aatcctttgt tggttcttcc ttgtaagcac ttgatgtaga tacctgttta 300  
tttatttaat gatgttttgt gtgctatcag aacttcattc taccatgctt gttccttgat 360  
cacatagatg catgtgttgt tagaatcatt caac 394

<210> 16574  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 16574

tcaatcttta taaaaaaaaa aaatcaaatt tgtacatttt cagtttaaaa aatgaaaatg 60  
aaagaaaaaaaa aaaaagagag aatctaagat gtgaaaaaaaa aaatggaaag ggacaagtaa 120  
tggagcaaac aactaccat taccctctct tttttccagt tttccagcac cacaagtctc 180  
caactccaac aaaaataaaa ggcataacgt acaccaagag agaagaaata gagtggggaa 240  
ataacaaaaa aaagggaaaa aatgacgttt gcaccgccgt ccataccact actctcagag 300  
tttatttcgt agacaagtca aatctagttg ctcatctct agctcaggca tctagatttc 360  
ctgctaacat atatcttta tagtattccg agttgtattc tagttattat tattaatgaa 420  
atgatatgag tat 433



<210> 16575  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16575

ctaacaatgg atttcaaaat ctttgttttt tatgggtcaa tgaattattg catgttgata 60  
 attgattaac gacatgtact aattcaagct tagcaagaaa agtaaaatct aatagtgcct 120  
 tccaagtgtt cacaagttaa ctagtaatag gattaaaagg ggactttttc tcaaattggat 180  
 tgcacttact ttttagcccca cagaaaggcg gctgatttgg tctaagttaa aactgcactt 240  
 ttatccaaga cagtcaaatt aaaattcata aactgtagta aaaaccgatc acaaggtttg 300  
 ttgtcttctg aaaatgggtg agcttactat tccttaatga acacacatga aattggattc 360  
 aaattctgta tttttggat 379

<210> 16576  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16576

ttgcaatttg gcatctaaat tctgagagct ctggacttat aagtctgcta aagttggaag 60  
 tggggctgaa gtacaggatg cacggatgcc gactattagt gcaaaggaag aggggaacatc 120  
 aaccgctctg agcatgggtct tccttgcttc ttgaaattta actgttttgt tattcacatt 180  
 ccaacatttc cttatgatat aagctaagtc aatggccgac ctttaagtttt catagaaggt 240  
 aagggcatca gatcctactc ccctcgatct acacaaggca gtgattaaag ctgggaagcc 300  
 taagcgagaa gagttagact gagccatcat ggtcatnttt ccagagatca aactgccaat 360  
 gttcatgtcc atccttgtga ctaagccata gaacaacctt gctctgtctg tgtcaaatct 420

<210> 16577  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16577



gacccttcgt tagcttgcca aaaagagagg atcaagacag aactcgtgca tgatgcgtat 360  
gtgaaaggca caatacgtgg atgta 385

<210> 16580  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16580

tggttntggg caatagcacc ccacctgacg tcttcatgtc tcttgacccc cgcgacatat 60  
ctccaggtac cactctgtgg tcaacaataa aagcaggaag tttcaccctt caacacttcc 120  
tcacttcaag cttgtaggat tatggggtag ccatcacatg tgggtactagg tggcgggtcgg 180  
gcgatggtgc acaacaagtt ttccacatcc acaatgcgcg cataaaccce ccacccctg 240  
ttgcccacct ccacccgagc tcacgtactc ccacgtagcc catatccccg tttcgctcaa 300  
caccaggtcc ccaccaatcc tccaagctt ccaaaacatc caagcaaac aacattcaaa 360  
cagcaciaac taccacagcc aagataacag ggcagaggca gaaaactctg cccaaaacac 420  
caacca 426

<210> 16581  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16581

ttttcttata ccaaagcgac acaaaatcta ggtatccaat acccctcaat ttaatggatt 60  
ttcaagggtta gagaagcgaa attgagaatg acgtaaattt ggagcaaac ctcacctcac 120  
acaagtctat aacatcaatt taaacttgct catactggat ttacacctaa aattccaccg 180  
aatcaaaaatt tgactcctca acaccaat tttaccctag aaatgactct ttgtccactt 240  
ggtcatttgt ttttctcact tgcacagccc aagctttctc ataagtccta aatgacattt 300  
caaaactatga ttaactcact ttaacctcca aataccacta aatccagatt tggccttcca 360  
actctcataa actcactctg tttccactca t 391

<210> 16582  
<211> 419

<212> DNA  
<213> Glycine max

<400> 16582

tatagaatat ataatataag aacactgaca atataatagt ctatacatgt ttcctttgat 60  
gagtctaata ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccgtagaa 120  
gatacacata ttcattgaaa tgattctaaa gaaaaagatg aaggaagcaa tgaggattct 180  
caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
catccccctg acaacattat tggatgata tcaaaagggg taacaactag acattctctt 300  
acagatttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagaa 360  
gccataggag atgataactg gatcattgcc atgcaagaag aactgaatca atttgaaa 419

<210> 16583  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 16583

tgcttgagat gaggaagtgt ataaggggtga aacttctctg ttttactcgt tgaccacaga 60  
gtggtacctg gagatatgtc gcgggggtca ggagacctg gggacgtcag gtgggggtgct 120  
attgccc aaa accaagcttg accaatcctg acccaaccg ggcatagtca gtcagtgaga 180  
acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaaggc 240  
cacaaagcat gggggcttgt ggtggctggc cagctgtgaa atttgattga tatgtgagat 300  
atggcctctg gtaatcgatt accatgggtg ggtaatcgat tacaatgctt acaaatgaag 360  
acaggaggct aagatgggtct ctggtaatc 389

<210> 16584  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 16584

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ggaatatattt ggaaggccaa gtgggtctgg ttgctatttg aacccccatt tttactaaat 120  
acacccctt gctctttatt ggagattctt tttccgtaac gttatgaaat tttacgaatt 180

tcgaaacgat gcttggtttc tttccataat gttacgaaac cttacggatt acgtaatcat 240  
cccttttttg ccttccggaa cgttacggaa ctttacggat tgcacactaa cacttccttt 300  
taatttctgg catgtcacgg aacttcaggg attgtgctac aatgccttct tttgacttcc 360  
ggcatgtcac ggaacttcac gaattgccta atgatgggtg ccaagtacct cgaagt 416

<210> 16585  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 16585

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gtatggctaa cgatgtctct agaacatttc cattagattt aaagatgaaa tctgtgcatt 120  
ttcaggtgaa aacaaaggct aagttttgaa ttgcaaagag tagtagttgg gctaagctca 180  
atagtttggc taagcacata tccatcacta agcgcagctt caacacactt agcgcaaagg 240  
agaatctggc aaagcatcag catcaaagcc gcgcgctaag cacagcaggt gccttcagcc 300  
atgctaagct cgggacatgc gttaagcccg aatccactta ctgcgcgctaa gcgcagcatc 360  
gc 362

<210> 16586  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16586

tgaaattgca tgtgggtacc tattttgaat ctctatgct gtctctactg acataaaata 60  
gtcccaccat cccaattttt gcaaaacat attcatatat cattggagca tttcaccgag 120  
cacttggtgg gcgcacgttg ggacataaat tgcaagagaa tgggggcaat gcggcatgcc 180  
ccattgcttc aaaatacaac ataggcctaa ggccttctca ttcaaatect caactcaaga 240  
aatcaagcat aaaaacaaac aaaaactgcc ccacaaatat aagcacgttc tcacaattaa 300  
aagcaccaaa agatgaagaa aatactccaa tgggaagcaa aaaactcaag gattgaatac 360  
ttacttggtg gagtgagtag aaacaccaaa tatgacagca naatgcaacc a 411

<210> 16587  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16587

tgcttagtaa agctaggcac taacaatctc cccctttggc aaattttgtc taaaacatac 60  
 ttagacactt cctgagcagg tacgagcagt tatgcatgtg ggatcagcaa ctttcattat 120  
 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240  
 catcttctat cagctactag tcttttccag gatgtcaaga catctcatgt gacatcagct 300  
 ttcccttgtc tccatgctct tactgcagca tcttctatca gctactatta gcttacatca 360  
 gtcacatca gcagcagcag tcttccc 387

<210> 16588  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16588

tgactaggcg agttgatttt agccttagtt tcactttagt tattagtcaa ttcaattaag 60  
 aatgagaaat cccaaagaga aaacgtccga ttgatttttc gctttatttt actaaaaggt 120  
 attttttatt attatattat tatttttacct cttttttgat ttccaacgta gttacggcac 180  
 gaccgaacgg tcggaattca ttttaaccga aattaacgga tgatacaatt caaatgatcg 240  
 gtggaaatth attttatttt tagattaggc gagaaatgac ttaaataaat gactgaagca 300  
 cgtcaaaagg ggatatagaa agcgaatgaa aatgagaata aaaatacatg atataaaatg 360  
 tggaccacca cgggtacata gaatgaattg aanagctcgg cttgaggtac ttaccggtg 420  
 aa 422

<210> 16589  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16589

agcttgccga gtccggagac tcggtgaaaa acgattcttg agtttgtgac actaacgctg 60  
 agttaatgtc tttcaaaaca acgtcgttga cgacgttggt gttgtttgta ttgtcttcct 120  
 cattgttaat tttggtggtg gtgactctaa aagagagggg tttgggttgg tggcaggatg 180  
 gccaggccct tgatgaagaa gaggaggagg atctgacatg tctgcttttc agaagattaa 240  
 aaaacttcat ttttaattag aaaaaagaag gtaatgagag gaaacaaaat ggatatattc 300  
 aaatgagttt tggaggttct gatatggcag ttaagtccat agaggaggaa ttaatggttg 360  
 gtcagaaaaa tggactgtgt ggggggatga 390

<210> 16590  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16590

ntgctagtga aggtcttgaa cgaggctcat gtggcccaag atatctctgt agaaggtttt 60  
 ggaggactag tcaataacat caccgccaac aactatctcg ccttcaccga agaagatatt 120  
 cctgtcgagg ggagagggca taacagggct ttgcatgtat cagtcaaata catggaccac 180  
 gtcgtggcca aggtgctcat cgataacggt tccagtttaa acgtaatgcc caaaagcacg 240  
 ttggagaaat taccgtttta tgcttcccat ctaaagccaa gttccatggg ggtccgtgcc 300  
 ttcgacggca cccgccgaga agttagggga gagatcgacc tccctgtata gataggccct 360  
 catacctgtc aggttacctt ccaagtaatt gatattaacc cggcttacag ctgtctttta 420  
 ggacgcccgt 430

<210> 16591  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16591

agcttgatgg cgtgtaactc accattttcc ataataaac actttatgtc tactatcatt 60  
 gttattatct ctttcttcgt cattgaggga aacacttggg ttgccagatc cctccacctt 120  
 tgggtgtatt ctttgaaaga tctgtgcccc ctttttgac atgttctgta gttgcatcct 180

atccgaagcc attatactga cactgcctaa cgaaggcaac cattaggtcc ttccaagaat 240  
agactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta agactttctt 300  
ggaaggaatg tatcagcaat tcctcatctt ttgcgtatgc ccccatcttc cgacaatgca 360  
tcttttagatg gttcttgggg caagtattcc ccttg 395

<210> 16592  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 16592

tgtaggatta tggggtaccc atcacatgtg gtactatggt tcggtcgggc gatgggtgcac 60  
aacaagtttt ccacatccac aatgcgcgca taaaccaccc atcccctggt gccacacctc 120  
aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180  
atcaatcctc tcaagcttcc acaacatcca agcagaacaa cattcaaaca gcacaagcta 240  
tcacagccaa gcaaaataga gcaaaggcag aaaactctgc tcaaacacca accaaaatca 300  
cagctttttc tcgcttaaag accccagtaa caattccttc gatccaattc gttaaccggt 360  
ggatcgactc gaaaatttta ctagaagtct ctagtacata agcctacatt gtgaccgttg 420  
ggatctacta 430

<210> 16593  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 16593

agcttatata aatatgaaac aactaaaata gaagtggaat atcgtgttat aagtatagac 60  
aaacaaaatt aacaagagaa aagtaaaaac tttaaagttaa atataaacca ataaaatgag 120  
tagaaatagg atttataatt aaatataaaa gaataaagta tatagaaata gaaatagaaa 180  
tagagtaata acgggtatca ctggccgggg catactcaat ttcttcgacc acacatattt 240  
ctctcgcttg gcttactgac tcatgggatg tcaaggggca tactctacca ctccctttta 300  
tagcctataa atggtgccat tttccacata tgacacacat ttatcattta aaaaaaaaaa 360  
aaaacatatc cactctcttt tatagccaat caatg 395



<210> 16594  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16594

ntagtgccttc tttactgagt caaaagaaag tttggatatg gttttgttca tgtgaattca 60  
 ttatcttcac atgataccac tgcgagctaa ctcaacatga aatgcgagct attacaactc 120  
 agactatatg attaagtacc ccacatattt gacaagaata ttataattcc tgaacctatt 180  
 acaactacaa caagtatggg attttgattg ttagagtaca agtgtgaggt gaagtactac 240  
 atcgggtaaa agtgaaaaag ttaagcacca tacaagtga tagaagacc ataaacctga 300  
 gccttaaggt tttgggttaa agtgtgagtc aagtaccctt atgtgattgc tcatggctca 360  
 ttgggtgtaa tctccctggg gtttactccc ctggaattcc ccaacaactg gtatcagagt 420  
 cgatg 425

<210> 16595  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 16595

agcttattcg cgagttaacc taggcttaag tgataagatc agaacatgta aggtgatttt 60  
 gtgatgtatt ggggcttaag tgcaaagtaa ttgaggatta agtgcagcgc ttaagcatgg 120  
 attgactggg gcttaagcct gacagtgatg cttaaagcaca actggactag cgtttaagtg 180  
 tgactcttta ccatactctgt tgtgaatgaa ttccaaatgg atttgaattg gatttttctt 240  
 atattagaag gctttgaaat gacataaata ggtttgaatg ttatgttgga agaatttacc 300  
 tttactaagc atagataatt agaaattgaa tcaaattggg tatgaattcc ttgtacatta 360  
 agttgttgtt gatgaattgt tattgaaatg agtctt 396

<210> 16596  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 16596

ntgctcctaa ttcctaaaaa attccctctg cctagcatga tgtacggtac aggtaatgca 60  
cctctgatta ttgtagtggg gaacgaggtt tatttagttg ttaatcattc catgaaccct 120  
tttccttaca tcctctttgt agttgcagag gttcaatata taagccagga aaaaaaactt 180  
attagtcata taaaatcttc acaaagttaa cctaattggg ccaaatagcc acatgtttac 240  
ctgctcagga gcacctttgc tagatcgatg ccaatttcca tcagaatcaa tgtaagttag 300  
aggagtcttc ttgtccacaa gattgaatgg aagaaagtgg acctccctaa taccagctcg 360  
tgctgatca gttcatagga aaagtgaatt tatttatcac cattcatccc acatcataaa 420  
agataatc 428

<210> 16597

<211> 378

<212> DNA

<213> Glycine max

<400> 16597

agcttggtga gcttgaaga ctctctgcat caatgaagaa gttagagaaa gatctcaaga 60  
acaagaataa atacgatgta tgttatccat tcttgtggat aaattcttca aactttctgt 120  
tatgggtttc tttggactgt gattgcctta cttttgtatg tgtattgggt acctatatat 180  
ggctgcagga tgagcaatac cgcgccaaac taaacaagtc aaatgagagg actctatcac 240  
ttatcaaagc atgaattgat actgtggtag cagtaagact gcttcaatcg gcaccaaga 300  
cagctactcc tcgcgtaact ggggcttttg gatttgatc gtctctaata tcttgctatc 360  
aggtacctgc tagtataa 378

<210> 16598

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16598

tgacctaatg gaccccaaaa cgaaaaaatg gttggtgtat tgttttcgag ttgttctact 60  
tagtcgatga tctctgcgcc aaggctgctc tgctttcaaa gcagaggaag atgatgccat 120  
tgttccctac gtgcaacctt aaaccactgc tccaactcag gaaaatcgaa aagcagctgg 180

cacgggaagt ggcaccaatg aagaatgtca aaatgttgcc aatccgggat gtagaggagg 240  
 aaaaagaagc agaaaccgtg gtgcgagggt atgtcaagga aaaaattatg aaaagcatct 300  
 tggacaggaa gaaaggtggt gttcgagcgg ctgtgattnt tgggattaca gggttagaga 360  
 agggaaaagt tactgaatat gtttgcgaag atgagaatgt gaaaagtggc tttgacgt 418

<210> 16599  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16599

tttctttcaa tctcagtcaa ttggcattca gatggttact tttcatgctt tagagggtgtg 60  
 agataagggg accccatttc tccccgtata ttttgtcttg ctgaggagca aggttcttag 120  
 cagaggcata tcagacttgg gtcacaaggg caaattagcc cccatgggtg gtcccacctc 180  
 cttctcacat gctctatgca aatgacatca ttatcttctg cagaggcact aaaaagaatg 240  
 ttcacaatat tctgaatctg atgaatatgt atgcataagc ctccgggtcat gaggttaacc 300  
 atagaaagtc tacttaatat tctgggtgggc tctctaataa tcggatgtat gaaagctcct 360  
 ttatactt 368

<210> 16600  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16600

agtcgagccc gtcacagcac tggaggtggt tgtatttcaa ggggtggttcc aatgcccctt 60  
 tttctcacia aaacaacatt cgacgcaaca gcaatggtgt ttgcaaacc aaagaacgaa 120  
 cttaaagcga taaagaaaca aaaacggctc ctctaagat caccaaccac gcaaatgcag 180  
 acatttcagt tcaatcatga ccgaaatagc cttcacatca cttgattttc atggggactg 240  
 acttttgtga cttgcggagt atatgttatg taacttataa tattgctaca cggcatctct 300  
 tactgttata taatgaaagt tattgatgta atatgtgagg atgtttcccc agactagtcc 360  
 ctggattnta aatttaaatt aaatgctttc agcacgacta gtagcattag gggctcttatt 420

ata

423

<210> 16601  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16601

ttgcttatta agtccgtcta tggattgaaa caagcctccc gccagtggta tataaaattt 60  
catgagggtca tttcttcatt cagctttgaa gagaatgcc a tgtatcactg tatataccag 120  
aaggtcagtg agagtaggat ttgtttcctt gtattatacg tagatcatat tttgcttgcg 180  
actaatgata agggtagtct atatgagggtg aatcaatttc tctcaaagaa ctttgatatg 240  
aaggatatgg gagaggcatc ttatgtcata ngcataaaga tccatagaga aagatctcga 300  
ggcatttttag gcttgtccca agaaacctat atcaacaaag ctttagagag aattaacatg 360  
aaagattggt caccaagtgt agctccc 387

<210> 16602  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16602

ntaagagcaa ttcccttctt cttcttatca gtttcttttg ttgatttagt ctttgcaact 60  
ccatctcatg ttctgtaat tttcaaaata aagtagcaag agacataata gacaaatctc 120  
tagattctat aatgggtggt acttttggtt gcctcatttt gaaaagttct tcctaatgaa 180  
gcaagatggg taactatatg tgtgaatctt ttctgcatat cttgtatact ttcatttgct 240  
ttcatcctaa ataattcata ctcatgagtt agagtattta tcttagatct tttgacatca 300  
gttgttccct catgtgtaac ttgtagagtg tcccacatat ccttagcact cttacaattt 360  
gacaccctan aatattcatc cattcctagg gcagaagtaa tgatattntt agcctttaaa 420  
t 421

<210> 16603  
<211> 395  
<212> DNA

<213> Glycine max

<400> 16603

tagctttgat gatatggtct tcaccgacga aaggatcaaa gtgggtctaa gaaaaggcaa 60  
atctaatacat catgctttga taaatgcca aaagataact atggcaaatg aaaagggtga 120  
gaatgaggga gaagcccatg ctgtgactgc cattcctata cagccatgtt tcccaccaac 180  
ccaacaatgc cattactcat ccaataacaa accttctcct taccaccgc ccagttatcc 240  
acaaaggcaa tccctaaatc aaccacaaag tctgtgtact gcttgcaatg acgatcacca 300  
cctttagcac aaaccaaata caccaacaa gacatgaatt gtgcagcgag aaagcctgta 360  
aaattcacc caattccatt gtcctatgct gactt 395

<210> 16604

<211> 444

<212> DNA

<213> Glycine max

<400> 16604

gacctatgaa tctcagcttc tatataagct gaaccatttt atcaataaac ttttgttgag 60  
ttttattcag aaaattagag gttatctctt ttatcttagt gagagtgatt ctcttaaatt 120  
cttgagtgat tcaagaacac cttggctgta tcaaaggact tccacaacct ttgtgtgttg 180  
acctcgctgg aaagagtgat tctttccttc ctttcatcat cacccttggt ctttcaaacc 240  
acaattccag aaaatccacc tctgcccaga attatctcgt ggccataact cccattttac 300  
gcactcaaat taagtgatc ttgagcctaa attgaatttc aaaacgagac ctttcacctc 360  
gttttggaat catctcattt ggagccctgt agattcagtt attgccattt ctatatttct 420  
gtccagccac cacttaacct acgt 444

<210> 16605

<211> 391

<212> DNA

<213> Glycine max

<400> 16605

agtctttcct ttttgtcctc ctcatagttg ttgcatgaga atacatgctc tattttcatc 60  
tcccactcca agtaggcctc cggatcattc ttgcctttaa gcggaggaat gtcgagttta 120

ataccatgaa ttcgggttttg tctaagaaca ccatcattcc ctcttgctct actttcttct 180  
tcattatgac ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240  
ttcattagcc tctccaaatg atgcatcgaa gcttgcatctt ggaagtgcga aacccccact 300  
ccgtcattag gattagtacc tgacatgtca aaccggcaaa tcaaacgtaa caccgacaatt 360  
cttgctgctg gtggaacacc tgaccactc a 391

<210> 16606  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 16606

tgcatttggga attgcgaaag cccactcca tcattattat tagtacctga catctcaaac 60  
aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120  
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180  
ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240  
atgtgtaagg taaggctaga caaggaaaag gttaaccaag aaaaaggcta acaatgtttt 300  
taggcacata tgaaggaaat aaaattcaga atttaggaat tcaagtaaca atccttcacg 360  
caaccaatat attaccttaa agagtttttt ttttttaagt tcttcaagca tgaagcattc 420  
ag 422

<210> 16607  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16607

tatcttattc aggatatggg atgtcactct gcaaagtgtt gggaatggaa gcttgaatgg 60  
agaagacacc tttttgacaa tgaggtgcaa gcggaacca gtttcttgga tgatatctcg 120  
cggggtcata ttgatcggtg gacatcagac tgctgggttt ggaaaccaga acctaatggc 180  
aagttttcta caaggagtgc atactgtatg ctactagaag gagcagcata tcagactatg 240  
gatgaggctt tagaggacct atggcagctc aaaatacctt taaaaccaac aacatttgct 300  
tgggtgattga tcaaagatag aatcccaact aaagggaatt tgtggagaag acagctggag 360

aaacgctgtg cccagcccta caactatt

388

<210> 16608

<211> 432

<212> DNA

<213> Glycine max

<400> 16608

taagaaactc cgcttcttga cgggtgatgt tcaacaacct caccttattt ctctgtttcc 60  
atcttgcgaa ttctacttct cctctaggaa attgcagctg cgcaagttca acaagctcat 120  
cgtcggacat tgcgtcttat tcttctccta taacaaattt ttggagagat ttgtgtgggt 180  
gagtaatggg ttttgggtga tcgtttcatg catcacttca tagtacatta tgtattattt 240  
gaaaagtatt ttcttgtcta tcgtctcatg gtttatttta aagtttagatt aatggcattt 300  
gtcaagcatt tctcaaccat ttttgtcatg ctctgcttca agcataaact attattaaaa 360  
ctttgaaaca ttttagctgaa acacaaaagg agaagaataa tgaatataac aaggcataca 420  
aaacattaat gg 432

<210> 16609

<211> 348

<212> DNA

<213> Glycine max

<400> 16609

agcttcccgg atccattctt ggaaggactt gatggctgct ttcattcagga agtatcaata 60  
caacactgac atggctcccg atagaacca attgcaaattc atgtgcaaga aggagcatga 120  
gtctttcaag gagtacgctt agaggtgaag ggatttggtg gcccaagtag cccccccat 180  
gatggagaga gagatgataa ccatgatagc agacacattg tcagtcttct actatgagaa 240  
aatggtaggt tatatgccct ctagttttgc agatttggtg tttgcgggtg agagaattga 300  
agtatgctta agaaagggga agttcgatta caccacttca gcaagtat 348

<210> 16610

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16610

tggcattccc attggtggaa ggaccttagt tttctttata atcagtctga tttccacagt 60  
 atccagtaga atatggtatg gaaggttggg tgtggggaca aaatcaaatt ttggcaagat 120  
 tcttgactga gtgagggctg taagcatttc aaaaaaagat tcttggcaat atggaaggaa 180  
 ggttagttta ttaataatat tcaaagaaag attctcagag tagaaccctg gcagaccaac 240  
 cctggatggg attcagtttt cttctcttgg ccaagggcag aaggaaagcc ttgctgctag 300  
 attctctgaa gtggaaatta agtctgcagt ttgggcttgt agtggagata aaagccctgg 360  
 cccgtatggg ttgaacttca actttatcaa gtagtnttgg gaaattctaa aacctg 416

<210> 16611  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16611  
 tagcttaaca tgccccctgc caaattctga gaagtaccta actcctacta agagcataaa 60  
 catttacaga gggatttcca aaaccagatg cacttattgc cgaaaaatca cgaagtccaa 120  
 agtcctatat atgttacgtc tcaaaaattg gatgcaatct catgttgtaa caaagtcatt 180  
 tacaaatccc ccagtcccca cataaaagat cataacttgtg ccattacttt gcaaattaaa 240  
 atctgtctcc ttgatatgaa tatattgaag aatttcttta cagggtgaatt acatgataac 300  
 tgatcagcgg ataagtaggc agtatggaaa gctggtaaat aaaaagacaa tatgattcac 360  
 ataccagaag tggcccactg gtccaacgaa a 391

<210> 16612  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16612  
 tctagtatct ataggttttc ttcttcaagt gttcattgtc tttaaacaaa tagatttctt 60  
 cacttaaaact cacgtatgaa gatgtgactg ttgcattaaa tgcacatcct cctcatgctg 120  
 gaaaaccatt atcttttagct accttgaaaa atacttcagc aggaaaccac ttgctttcac 180  
 tcagagcaag tttgtcatag catagcacat tgtttgatac tatttgaact tcaaggtggt 240  
 gaatgttcct ttatgcttct taggattttg atagattcta agagaatgtc gtgtaaaaca 300



gttcttgcaa aatgaatctc agacacaaag tattaatga aaattttaaa tgcattctta 360  
aatgttgat caaatcataa ctaatgttta ctttcatttg aaacttcaaa agcatattca 420  
atg 423

<210> 16613  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16613

agcttgatg gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagccatgg 60  
ctatgcgaga catcttgcca aacaaagtca ggtaaacgat aactcgcttg tgctttttct 120  
tccatgctat atgtagcaaa gtcattgatc cagtaatggt tgatgagttg gaaaatgagg 180  
ccacaattat actgtgcctg ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctggt tatctacggg 300  
ggatgtaccc gggtgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360  
gtacagaagc atctattatt gagaggtaca 390

<210> 16614  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16614

cttgcagatc agagtgaaat gtattctgat cccgatatat atagaagact tgtgggaaaa 60  
ctcatctatc tcaccattac aagacctgat atttcctttg ttgttggagt ggtgagccaa 120  
tttatgcaaa atcctcgtgt tgatcattgg aatgctgtta tgcgtattct tagatacatt 180  
aaaagagctc caggtcaagg attactttat gaagacaaag gtaatacaca agtatctgga 240  
tattgtgatg cagattgggc tgggtgtcct atggatagga aatccacatc cggatattgt 300  
gtctctattg gagggaatgt tatttcttgg aaaagtaaga agcaaactgt tgttgctaga 360  
tctagtgcag aggctgaata tagatctatg gctgtagtta catgtgaact tatgtgggtc 420  
aaacaaatn 429

<210> 16615  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16615

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 gcttcctctt ccagctctag tctttgtaga tcttcacaca acaaattctc tcaaactctc 180  
 tggaacttgg acctttctct ctctagaact ctccaattat gtagaagctt caagaaaagg 240  
 ctaaactcct cttcaaaatc agatttcagg cttaaataagg tggcttttgtt tgtgctcgtg 300  
 cgcttagcgc aattctgaac cgcttagcgt gcattagtga atttcggctt atcgcggtt 360  
 ttctcactca gcggatggac tgaagcagtg tgctt 395

<210> 16616  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16616

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 caacagtcac atgttttttac ttggttcttg aatggccatc aaaggcttat atatatgtga 120  
 cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggat 240  
 ttatttgagt gtcaaaattg ttcaatctat ctctttcaag agagattact tcttttcttc 300  
 ttctttattc tgaaaaagga ttaagagacc gagggctctt tgttgtaaag aaatctgaac 360  
 acaaaggaag ggttgtcctt gtgtagttca gatcttgtaa taggctntta caagatagtg 420  
 gaactct 427

<210> 16617  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16617

agcttctcaa tcttgatttt aagaagatca gaacttgctt tgaaccttct gagtctgatg 60  
 tgttttcttg ctctctcttt ttttaagcaat attccccaat ttcaccaaga tttctgactt 120  
 gtcttcaaaa tattgggttg aaacttccca atgttggttt taagaaagt ggaatttgct 180  
 tttctttggt tatggatatt ccaactctct ctttctagca atattctccg aattcaccaa 240  
 catccctgag tgggtcttca aactattgtc tttttcagt gaactgagtt ttatgttttt 300  
 tattgggaat gaaattatct tgtaataagc tgagagttta gtaagcttca gcttgaggtg 360  
 ggagtgttaa gaatctgaca gatattctag atg 393

<210> 16618  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16618

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 atctaaacag tgttttggtg tttcatattg ctgaaattga taagaaagac aaagggttga 120  
 gttctcaatg ggaaatgaat caatcagcca taagacaaca atataggaca actatcttat 180  
 ttttaattaat ttatttcata aatttgtcta tttttacact tctagcgtct attcaagcat 240  
 aagacagtaa attggccata ataggcatgg cactaatatt taaaaaataa aacattgaaa 300  
 ttttgacaat aaaattgtca taagacagta aattgcccac aatagggaag gcactaatat 360  
 ttaaaaaata aaacattgaa attntgacag taaaattgtc actttttact atgagatgtt 420  
 gataaaaag 428

<210> 16619  
 <211> 147  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16619

gtgcgggtccg tatgccattt cttctgatga gacagcttat tcaccatggt gctgcatact 60  
 ttgatttatt attatgcatt ctctgtggcag aaccacacac tttgagacat gcctcattga 120  
 ctgaatcaaa atgccccgag ccttgc 147

<210> 16620  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 16620

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agcttcttac catttgaaag cacttgaatt ctcctaaaca tgatcatccat atattctcct 60
tctttcatgg agaaactttc ataatgttgt gtcagagtgg caacctttct tagttgaaca 120
tcttatgttc cttcatagtt gatgcttaat gagtctcaaa tctctttggg tgtctttagt 180
ctgcatatct tgttgtactc attcttggat agagagcatg tcaaagtata acgatttttt 240
gtgttttagct ccattattgc aaggctctga tttatccatt ctgtttcagg tttgggaatg 300
ggatatcttc tatttgtgat gatcaaccaa agtctctagt ggttggactt gatgtacatc 360
ttcattattg ctttacagta a 381
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<210> 16621  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16621

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tttgctgtag gaattttcac atagtatttt gcttagtatt atttaggtct tgcctttgat 120
attgtctaaa gctatgcaca tttaattaat aatagggaat attattggca aaatattcat 180
tctcttattg tttattaatc tcagaatcag aaatatgcca agattgtaag atcaaaattt 240
ggttttctat ggcttttcta gtgagtgtta ttggatctag taataggggg tactgaatca 300
aaacttgtaa gttgaaactt aagggtacat agcttgcct gccacatctg gaggttctgg 360
tttgagtga tttgtaggaa tataaatggc ttctcaattt agtttctcat ttgcatatca 420
cacatact 428
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<210> 16622  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16622

tatcttttgg agacagagtt aagcaactga ttaattgaaa gaagctctga atgggggtcac 60  
tgtcgatgta agtttcccct tgacttggtta tattgcctgg caaaaatata gttgcgagtt 120  
tcccttttagt ttgttatatg actggtaaat agtttgcagc taaaagaaaa ccgagagcca 180  
agttgccttt actttttttt tgatagttac attcactatc tcattgcatt catagcttcc 240  
tttgccatth ccattaatag aatagagaat tcttaggcat atgagcattt aatgcattct 300  
tgtcactgac tctgctcaat agctttcaat aattacaatg acatcttttt ttttggttgt 360  
ggaagatagg cagagtcata gagatataaa 390

<210> 16623

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16623

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ttcttaatca atgcggtggc attgtctgaa ggttcttctc aaattattgg gtcattttgt 120  
ccacttggtc aaccatataa aagtatcaat aagaatggta atgtgggggt tcattttgtt 180  
gtggcagttg attgtgcttt acgtggtttt caagcttgac gagagttaca cgccgagcaa 240  
agtttccatc cgtgccggtg atggttttca caacttgaag gtaaattttt attttattgg 300  
tttggttttg attgggatga ttatgcttaa ttatttgggt ttgactttgg gaacattttt 360  
aggagattaa gaccgtggaa ctctgaagg caactgggtg ggtttatcta tccttgtc 418

<210> 16624

<211> 385

<212> DNA

<213> Glycine max

<400> 16624

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tctgtgtaga ttgattggac aaagacttcc ttttatgatt tttagggtgt ttttccac 120  
tgcagtaaatt ttgcaaaacc atctaataa ggaggatgat agaaactggt tcagatttag 180  
cacaccaaga atatactggt actgattaac agaaagaatg cacaatttcc ctggatatcc 240

agagatccaa gactctccct agtcacaata ctaactcacc aattgactaa ctccctcttt 300  
 caatctctct ttctatatat aggcagcatg ccttatttct tctaccaact aacctaat 360  
 gctaactaat gtaactaggt atcta 385

<210> 16625  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 16625

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 ttccctcttca ccttacccca taaagtaaag atgatgccct atttcgagga ccatttttca 120  
 ttgcttgaca tatecttttt ttttactgta cggctcgcaa aaattactgc acattataga 180  
 atatcagtgt catttgtacc aatcaaatat agtttagttc aatgtgaact actaaataaa 240  
 gatcaaaagg cacaccttct ctaactatgc cgagtgtggt agtttttttag tgatcatacg 300  
 tgaatatatt catatcttta gtgttaaadc ataatactta taatgtctat atttttctca 360  
 cttttatcat tttcttatta atgagctcag atcccataag ttcacgggtc tggatatttc 420  
 aatg 424

<210> 16626  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 16626

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 aaatatctta agaagggggg ggggggttgaa ttcagatatt ccaaactact tccccaatta 120  
 aaaatctatt aactttttta atcaagttat gaattccctt aatgataatc ttcttaaata 180  
 ttaattcaaa taaaacaatt tgaatatgaa tataaaacaa taatatataa aggacgatta 240  
 atggaagcga gaatgcaaac tcggttttat actgggttcgg ccacaccctt gtgcctacgt 300  
 ccagtcccca agcaaccgcg ttgagagttc cactatcttg tacattgctt ttacaagttc 360  
 taaacacaca atgacaatcc ttcca 385

<210> 16627  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16627

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 acccatatac aatcaaggga gcttcgttac ctagattatt tacacgtacc tccaagggtgt 120  
 atttgttact tacatcacac acatctcctt ggctaaattc acatacatgc atactcaaag 180  
 cattttgggg taccaaaaat tgcacacgtg cacatcttag catttctaata acctatacat 240  
 acgcaaactt catgatgaat cttgactatc tacacaataa ggtgctacat ttcattgctct 300  
 ttttttcaag tttttgctgc ctaaagccgc atgcaaattc aagcatattt tcctttgctg 360  
 actaaaattg aattcaaatt aaaaggtata tcttttgtaa tatgttttct tcacataaca 420  
 tgcaac 426

<210> 16628  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16628

ttgtttggtg catatgatta tacacttcag cttaagggtgg aatattagaa ataacgtaat 60  
 tataataaca atgtaaatac gacagattat ttgttatgta attatgttaa gggaaactat 120  
 atattcttgt atttatgact cttaatatata atatatgctc tgggtgtgtaa ttttacacag 180  
 aattcatcac atgccatttt ctctcgttct caacactctt ttttaggttc atttatgggg 240  
 aggaataact atgttcgttt tgagtgttcc ctattttcct gataattgtt tcaatgtgca 300  
 gtcaacttct atgatggaga gtcttatgaa gcttgccaag tcaaactctg ataaaaattt 360  
 agagacttgt ggaatccttg ctggtttgct tg 392

<210> 16629  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16629

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 atgaattatg aagccaggaa cattctatgc cttgccacaa agtcctcagc tatttaagca 120  
 aatgctaata gtagctgggt ttgacaaata ttatcagatt gcaaggaat attttcgtct 180  
 tatgtttgag tctttatttg tagcttggct tcttttacga gaatatgtta ttgtccccta 240  
 tgtagtgtt tttccttttt ctcttttaag tttttccct atattaatat gcattttgtt 300  
 taagtgactt tcataaacta agaatataga atgcttggtt ttgtaagcta tactaaactt 360  
 aaaattgaaa caattatgat gcaagtgact tttctttttg gataaaatgc a 411

<210> 16630  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16630

ttgctttcaa aattgcccc tgtgtggcat ctcttgtaa tgtcaggatt tacacgtgat 60  
 tctcctcaaa tttcagccag cttgcatcaa ttagacctg caccttacgc ttcaagcccc 120  
 tacaatgtc aatggaatgc cccggggctt ctccatgaca agcaccacgt tgcgttcgag 180  
 tcgtattctc ggagaaatgg aggttgatga accttggtta gggttatggc taccattgaa 240  
 ttatcaagta gatatgggag caactcagca taggacactg gaattggggg gaattctaag 300  
 gctttctcgt tgcaaaattc atttcttcgg tgggtgtttg gtttacgcta aagggtggtg 360  
 ttgtcattgg aagtgcg 377

<210> 16631  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16631

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 tacctggaga tatgtcgcgg gggtaggag accttgggga cgtcagggtg ggtgctattg 120  
 cccaaaacca agcttgacca atccccaccc aaccgggca tagtcagtca gtgagaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240  
 agcaaagagg cttgtgtggt ggctggccag ctgtgaatct tgagtgatat ctgtgatatg 300



gcctctggta atcgattacc aagggtgggt aatcgattac aaggcttaaa agtgaaggca 360  
 ggaagctaag atggcctctg gtaatcgatt accaaggagg tgtaatcgat taccaggctt 420  
 taaaac 426

<210> 16632  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 16632

tagtttttct ttcacaatca atttgtctac taactaacia ttctactgtg agttcacact 60  
 cttgttcttt cttctttcaa catgcatatt cgttcaaatt catgaataga aacacaaaatc 120  
 tcattctcaa catgcattca atttaaagca aggcatatcc ccatttttca aaataaataa 180  
 actattttac tgcaacacca aaaaaagtta agttaaactg ttccagatgc ttcagaatga 240  
 gcaactacac tactcatgca caaaactaac aagaagtaaa taatgtacta taaccataat 300  
 tatactaata gatcaaaaag cacaaaaaaa tcaataggaa ttta 344

<210> 16633  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16633

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 gttttccaaa ccttgaaaac ttgtgctatt catcttttca ttctcttctc ctttgccaa 120  
 aaagaattcg ccaaggacta accgcctgaa ttcttgttgt gtctctcttc tcctttttcc 180  
 aaaagaacaa aggactaacc gctgaattc ttttgtgtct cccttatccc ttgtcaaaga 240  
 attcaaaacg acacagtctg agaattcttt tgattcttcc cattccctaa tacaaaagtg 300  
 ttcaaaggac tagccgcttg agaattcttt tgtatcccca ttcacaaagt atcaaagggt 360  
 taaccgctg agacctgtgt cttaacacat tggagggtac atcctttgtg gtacaagtag 420

<210> 16634  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16634

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tcaattcatc agtgggcttt ccttctgtgt ccagcatctt gggatgttcc cagcctttga 120  
tgacagcttt ccaggttctg ctatccagtg atttgaggaa ggccaccatt attgctttcc 180  
agtattcata gttgcttcca tcaagaattg gtggtctgtt cactggctct ccttctttct 240  
ccatgttcat cagaatttat ctccccagat ctactctgt gatttcgagt gttggctctg 300  
ataccaattg aaattctgat accaggggac agatgtcgta caggatgtca cgacatcacg 360  
cttcagaaca tgcagattgt atgtgt 386

<210> 16635

<211> 415

<212> DNA

<213> Glycine max

<400> 16635

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cgtgagctca gttgaaaggt gggcaactgg ggatggtgtg tttatgtttg acttgtggaa 120  
ctgggagagt tgatttgcac catcgcccga tcgccaccta gtaccacata tgacgggtgc 180  
cccataatcc aacaagcttg atgtgagaaa gcgtggaaga gttagtcttc ctacttttgt 240  
ttgttgacca caaagtggta cctggagata tgtcgcgggg gtcaggagac cttggggacg 300  
tcaggtgggg tgctatttcc caaaaccaat cttgaccaat cccgacccaa cccggccata 360  
gtcagtcagt gagaaccttt gacgtaccta aacaggcgag ctcttggaac tcaac 415

<210> 16636

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16636

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ccaagcggtt ctatggaccc ttccaagtca tagaatgcat tgggctcggt gcatataagt 120  
tacaattgcc ataggaagtt aaaatacacc ccgtattcca ctattccaag ctgaagtctt 180

tttgcggttc accagaaaat atggcgggaa ttgcctggca caaggagtta ctcaacgacc 240  
aaccctctgt gtttccatta ggtatcttgg attaccttag agcatccacc gaggatccct 300  
gngagggtgct agtgcaatgg aatggtctct cacctgatga tacctagtgg gaggattgga 360  
atcagctgtg tgaaaactac caccttgagg a 391

<210> 16637  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 16637

tgatgagaaa taaatgtttt gcttgggtaca acatctatgt tatttaatga gatcattaca 60  
ttatttgtgt cttaatagga agtgaaggac atacattaga ggaagccaaa tctatcaatc 120  
tacccttgag tgcattgggg aagtgtatta acgcacttgc agagaatagt gcacatgtgc 180  
catttcgtga ctacgcttac tagattgcta cgtgattcat ttggaggtaa gattcagtga 240  
gtataataat tcatattttg tctttgttca tttatacaaa gcagtaagat ttggcaaaat 300  
actcttccta actttcagga cgtgagacag atgaagtcga gcccataaccg gatgctctgc 360  
ctaactctgga acagtaagct gcctaattgt tctttgatgc attttagaag tctaatac 417

<210> 16638  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 16638

agcttgttca aatcaagtca ctccgcatt ttatctctag catgcattgt atgttggctc 60  
cgctctttgt cacgggaagc cggaaggctc atatacctt cttaattgta cacatggggc 120  
actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180  
atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240  
gcatttgtcc gttatcatat tccggcctca cattttgcat gagtcatggc atcatcatgc 300  
atatgcgttc aacaaacttt ttgatctaca aaattgcata ccatttgttt tcatgtttgt 360  
tcaccttgc gttttcctct acaaaacaaa aac 393

<210> 16639

<211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16639

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 tacgaatatg acatgatgtc gtttacgggg tattcaagtt cgtgatataa taccgcgaga 120  
 aagcttgaag gaccaagctt tcatttgtcc tggttctcat cactcgatca tctggcctgt 180  
 agaagatcca agtccgagaa gcaaagcaaa gttggtagcc actgctaagt tggttcactt 240  
 tgacaaaagc tagaagttgc agtatgggtt cccaccacc tgttgtaaatt tgagcccgta 300  
 gggtagaaaa tcaaggtcat ggatgtccgt gtggctattt ttctcattat tttttacaaa 360  
 ttttttttac tcattgtccc taggttattg gttttttttt ttttttcatt ntatatTTTT 420  
 aaatc 425

<210> 16640  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 16640

agatatttaa attaaaaaag ccacttttaa attttgagac tttttttggt acatgaaatt 60  
 ttgagactaa aaataacttt aaattttaaag gattaaaaaa tcatttttaa atttgagaa 120  
 gaatattttt tatctaagtt tgaagaacca aaaagacatt taagtcacaa aattaaatac 180  
 tttgacctga catataaata tatgataaca tggacttcat tagtcatatt aacaacaact 240  
 acaacattgt ttatgatgag gagttaaaag gagctatttc caaattttgg agaagaaaaa 300  
 atcatttttt tttaatttga ggaacaaaaa gctaacttgt tccaaattta agtaactata 360  
 attatattta agaaaaaaaa cactaaaaga tttgaa 396

<210> 16641  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 16641

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tctacggtgg ctggtgattt gcttcgagct gtgtcatcct ttgcaggaga tcatctatct 120  
 tcgtgttcat tgctagctga gatgctgata gttttgcaat ggcgtcttcc aatcggtctg 180  
 tggaaaccct agagcgtgta gcttccgcca ttgatgctca atgaaagcac caatgttatg 240  
 acttggactt cgaggaccaa gggcctcggt tagtagagag aagaaaggaa ggagagaaaa 300  
 gaaatcgtgt ttagttgctt gttatttcat gtatgaacat ttacaagggt ttatacttcc 360  
 tgcagttgag atctaacaga attagctaac tacaatcaca ttctaactga atctagaata 420  
 ttccagat 428

<210> 16642  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 16642  
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 agacctcaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120  
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300  
 aacataataa catctgccct aggaatgggt gaatatttca gagtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgatta acacatg 397

<210> 16643  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 16643  
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 ttgttgggtt ttatgatcaa gatgtggttt catcagaaat ggggtggattc gatgaaactt 120  
 tgccctgggt ctacgcaatt ctcagtaatg gttaatgagg attctttggg acctatttct 180  
 cctaggagag ggctaaggca gggtgaccaa ttgtcacctt acctgttcat tatttgcact 240  
 gaagggtctt cttcccttct aaaaaaatct gagaggagtg gtgagttaca tggatatcaag 300

gtgtgttaaag gagtccctgt cctctcacac cttttacttg ttgatgattg tttttgtttt 360  
gcagggtaaa tgatattgag catattgctt tgaaagctat tctagattcc tatgggtgaaa 420  
attctg 426

<210> 16644  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16644

agcttttaaaa gattggctaa gattttgtta aaacataagc acttagacaa tgaaggaaag 60  
ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120  
gcataagtca agataaaatg tcaaatgaag cattgaagct gcaggatcca cgatgtcggg 180  
tacgatgtcc tgacatcttg cccgaaaata ctggacacat gaatctgtta tatctttaac 240  
agattattgt gcagtttagca agagataaga agatctatct ttatgaacga attaaaagat 300  
aattaaagtt cgaatttcaa agtagaagag ttcggttcagg gattaaagat tatagataaa 360  
aactaaaaga tcaaactgta tctt 384

<210> 16645  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 16645

tcctcgaggc catttcctgc gaaggcaaac atttggttaag ttagttttac caagaaatgc 60  
tactcttaaa acaaaatggc gtacaacctc ctccaataaa cacaatatc aatgtaaatt 120  
tagagcaaac tcatgcacat acttccttac gagtattcac tcgcacaaga tattcttcta 180  
actaagaaaa atgcacccat gcacaatcaa agcaccttcg ttacccagat catttatatg 240  
tacttccaag gtgtatttgc tacctacatc acatgaactt ccttggctaa atttacatgc 300  
acgcatactc aaagcatctt ggctaccaaa aattgcagac atgcacattc tgggtatttct 360  
aatacctatg catatacaaa ctttgtgatg aatcttggct atctacacaa taagggtgcta 420  
catttcatgc 430

<210> 16646  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 16646

gacaacaata gcccaagaga atggattttc aagaatggat tcacacatag ttcatagaat 60  
 caagtatatc atagatagat tcacagaatc acagatgaag attggatttc atagattcaa 120  
 cgagatgatg atattcaaga attcagagtg aagataatca acgaagactt cacaagggaa 180  
 gtattgaaaa gattttttcaa aaaacaaact ctcatctcac acaagtctat aacattaatc 240  
 taaactcgct caaactgggt ttacgatgaa aactccatcg aatcaaaatt tgactcctca 300  
 acaccaatt taccctagaa atggctcttg ccttcacttt ggtcactcat cttcctcctt 360

<210> 16647  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 16647

tttggctttt aaatgccatt aagaggttca actaccccat tcattcttggg cctgcatggg 60  
 ggggaattat ggcggtggaa tcttgaaacc tcacacaatt cctttatcat tttggtggtc 120  
 aaaatggtgg cattatttgg ataattctct tgggccaccc ataccggcag aatatctctt 180  
 tcttaatgaa cttgaccacc acatttctt tgtacaactg gcatatgaag cagcttcaac 240  
 ccatttggtg aagtaaccga tctgcaccaa aatgaagcga cgtctattcg gagcccttgg 300  
 ctcaataggc ccaatcacat ctattcccca cat 333

<210> 16648  
 <211> 144  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16648

tgtttgttct tttagcgtc tagttatgaa agactagctt gcgtagnaag gggatcccat 60  
 ccttcgacct cgaaagcctg aagggtccgta ctcccttctt aatatggcac atggggcact 120  
 gctcccccg acgcgcatgt ccca 144

<210> 16649  
 <211> 82  
 <212> DNA  
 <213> Glycine max

<400> 16649

tctaaggtag aacaacaatt gaaaagaaag agtggttttg tgaggagttc atctaactct 60  
 cactgtcttg gttgcaagga cc 82

<210> 16650  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16650

tgcttgaaac attgaccacc caagagcgag gtctctctga aagatatcaa cactctgcaa 60  
 acacattaca ttaggaagca tggcataaag ccctacatga acaatattca acaacctagc 120  
 taagcctcat aaaggggtgcg aaaacagaat ctcgatgaaa ccttggtttgc atcgaacact 180  
 attattagcc ttggcgacaa tgtgaacctt taaagggtag gatatgaata tgtaaccccc 240  
 atagatagga gaataatcaa agagctagtt aagagctgag gagagcagga ggtcacaggg 300  
 agatttaact ctttcatgtt agcgccatca gtactcataa catttcatac aaggtagtga 360  
 atctacaaaa acctttcatc ttatcgccga tt 392

<210> 16651  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16651

tatctgctgg ccacaatata tccccgaagc aactgggtatt ggaaaggact ggggtcccctg 60  
 gctataacct tgctcttgct gcataccac caccatcacc agcctataga tcacatcaag 120  
 catggcatag acagtcctca ttcacaaact ggaaatgatt caatagaata gacatggggc 180  
 agataactctc atgcatgaca acgccactac tcgaactttg gccctaaggt gagggccaaat 240  
 gtgttgacaa cctccagctc aattaattat ctatgaaggc ccagtgattc ttgctatgat 300  
 gacctcaagt atccttccaa cattggcgga accattgacg ctgccaaactc gtaacgagggc 360



tgacacaccc attatggctt catgaagcaa gagcccttga aacatgggtc ta 412

<210> 16652  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 16652

ctgcttcttt ttttgagtgg ctaactaatg aacgatgtgg agagggcttg tttatacaca 60  
 accctgcccc ttctaccgt aatgcatacc actcctggat aacgcgattg cgaagtccta 120  
 tcgggccata aatctcgcta tggagtagaa ctttctttaa acgatcttag gctcctgaca 180  
 cttaagacgt agctgaatgg atgcaccgta gcattgagac cataggcgct gaaatattgg 240  
 ataccttggc cagctacgat agaaactgct a 271

<210> 16653  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16653

tgatgaaagc atagattggc tggtatgac aagatgtggc ttcatacaga atgggtggat 60  
 tcgatgaaac tctgcctaga caataatat agtaatatag aacaaaatat tagtcgagtg 120  
 aaacgcggtt cacaaaagcg atagataggg aaacagcgaa agggtaggca atactttgtg 180  
 gttaggataa tgaggggtggc tgtagaagct ttggagaaca acagctgtgg tgtgttgagg 240  
 aataattaat tactcataaa acacacactt gatttccgcc caacaaattt attgatgatt 300  
 ggtgacacaa taactggaag ctcaatcttc atttatggcc aattatagct tgctacagct 360  
 gagtttgtga caggatc 377

<210> 16654  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16654

agctttacag cagatttttag taatgaccca ctaacttaga attaaaataa cttaatgcc 60  
 ttaatctagg gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaaccaa 120

agtcaccccc aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta 180  
 gggttgccaat tggggccctta ttacaacttg aactaaacct actaaagccc tttcaagnca 240  
 ttcacccaaa ac 252

<210> 16655  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16655

tatagaaact caagcttctc gagaaattcg aatgggtata acgttttcac tcaatangtc 60  
 ctgatgcggc ggacatcaac tcatgtagac gctcgaagat tgaacaacgc acgctctcga 120  
 gaaactcgaa tggtcataac atttcgcaca catgtccaaa tctgtgacct aacatttcta 180  
 gacactccgc actggctgga taaagatctt gtcatatcca aactgcagta acatcgcgcg 240  
 cgccatgcct atataagctc gcgagcaacg gcactcccc ccaacat 287

<210> 16656  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 16656  
 agcttcaaga aaaagatggc ctcagcaaat tccttatttc cagaagggaa ttctatcaat 60  
 agacctcaa tctttaatgg agagggccac cactactgga aaacccgaat gcacattttt 120  
 atcgaggcaa tagatctaaa tatctgtgaa gccattgaca tagggcctta tatacccacc 180  
 acagtacaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
 cctagagaca gacgggtctga agaggataga aaacgagtac aatacaacct ataagccaaa 300  
 aacataatat catctgccct aggaatggat gtaatattca gagcttcaaa ttgcgagagt 360  
 gctaaggaaa tgtgggacac tc 382

<210> 16657  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16657

tgtagggtta aagtctcacg attgtgacgt gtttattcaa caattgttag tcgtggctat 60  
acgagacatc ttgccaaaca aagtcagggt agcgataact cgcttgcgct ttttcttcca 120  
tgctatatgt agcaaagcca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattta 240  
cttgattgtg catctgggtc gagaaatcaa atgttggtgt cctgtttatc tacaatggat 300  
gtacccggtt gagcgatata tgaagatctt aaaaggggtat acaaagaatc tatatcatcc 360  
agaagcatct attgtagaga ggcacatt 388

<210> 16658

<211> 210

<212> DNA

<213> Glycine max

<400> 16658

agtctgtggt ttcagcataa gatttagcaag atgatgcaac caattttaag gaaaccctcc 60  
gaagtcctaa cggtttcact gttgaagcaa gtaaaacaaa atatgccaga aataaatgag 120  
cgaagcagct ggaaaatcta ctagtggatt tggcattttc tccaaagagt gtcacttata 180  
gttcagtcca ctacagaagt tatgcacatc 210

<210> 16659

<211> 253

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16659

tttcagagc tacttggatg agcatatatt ttttctttc tcactatatt cttttttaat 60  
atatatgaac cagcaagtca gaaacctgtt aagaattaag cttctgtaat gcattactaa 120  
ccaattcttt taacagaacg ttccttctgt ataaaatgct ccaacttcaa taactaagct 180  
agaaccaatt tgatagtccc actacaatat ttgtggacga aacagcgaca caactgcgcc 240  
cattcatgca agt 253

<210> 16660

<211> 395

<212> DNA  
<213> Glycine max

<400> 16660

agctttgagc aaattcaaac gacaataacc ttttactcgg atgtctgatt gagtcccgta 60  
atatatcgag acgctcaaaa ttgaatgttg aacctctgag caaattcaaa cgacaataac 120  
tttttactcg gatgtctgat tgagttccgt catatatcga gacgctcgaa attgaatgtt 180  
gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
tagtatatcg agacgctcaa aattgaatgt tcaacctatg agccaattca aacgacaata 300  
actttttact cggatgtctg attgagtccc ataatatatc gagaggctcg aaattgaatg 360  
ttgaacctct gaaccaattc aaaagacaat atctt 395

<210> 16661  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 16661

taaacattca atttcgagcg tctcgatata ttacgggtct caatcagaca tccgagtaaa 60  
aatttattgt cgtttgaatt ggctcagagg ttcaacattc aatttcgagc gtctcgatat 120  
attacgggac tcaataagac atccgagtaa aaagttattg tcgtttgaat tggtcagag 180  
ctttaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
aaaagatatt gtcttttgaa ttggctcaga ggttcaacat tcaatttcga gcgtctcgat 300  
atattatggg actcaatcag acatccgagt aaaaagttaa tgccgtttga attggctcag 360  
aggttcaaaa ttgaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 420  
taaaaagtt 429

<210> 16662  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 16662

agcttgtttt tggtttaaac atgatttatg acttgtagga tccaatttga gaaaaattgg 60  
atgtgggcaa gatggattta ggactttagat gatccaattt atgcagaaaa atgttggttga 120

attgtgcagc agatttttga ttgtgtgcag aaaaatgctt gtgcattgct ggtttttatgg 180  
gaaaaggtag tacatattgg gttctagaca ttttctagca gatcccaacg gtcaagatgt 240  
atacttatgt actaggaacc tccagtaaaa ttttcaagtc aatccaatgg ttaacgaatc 300  
ggaatgaaga aaatgttact gggatatatg agtaatgaaa gctgtaatac gtgaatgtgt 360  
tttgggcaga gatttctgtc tc 382

<210> 16663  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 16663

tgtaagggtta aagtctcacg attgtcatgt gctcatgcta caattgttag ccgtggctat 60  
acgagacatc ttgccaaaca aagtcagggt cacaataact cgtctgtgct ttttcttcca 120  
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgggtca gagaaatcaa atgttgcggc cctgtttatc tacgggtggat 300  
gtacccgatt gagcgataca tgaagatctt aaaatgggtat acaaagaatc tatatcgccc 360  
ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420  
ctt 423

<210> 16664  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 16664

agctttctaatt gtatgtaaga tgtgtattgc ctctaaatga gctacagggtg cataagtttc 60  
tttgtagtct attccttctt gttgagagta ttcttttagca actaaccttg ctttgttttt 120  
cacaaccttt caattttcat tcagtttgggt ttgaaagact catttctctc caatagcttt 180  
ctttcttttt ggaaattcga ctgactttca aacatcattc ctctgaaact gatcaagcta 240  
cttttgcatt gctttaacct aattgtcatc ctgcattaca tcatcaatgt gtttgggttt 300  
catttcagaa atcaatgcaa taggtcctta tgttctgagt gatgatcttg tttgaacatg 360

atcaactaga tcaccaataa tttgactttt tg

392

<210> 16665  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16665

tgtaggatta tggggtaccc gtcatatgtg tactatgtgg cgttcgggcg atggtgcaag 60  
tcgactctcc acatccacaa atcacacata aatccaccat cctcagttgc ccaccttcca 120  
ctgagctcac gtactcccac gtagcccctt atcctcgttc ctctcaacac cgggttccca 180  
tcaatccctc caagcttcca caacatccaa gaaattcaac atccaaacat catgaactat 240  
ccaaaaccaa gaaaacaggg cagaggcaga aaactctgcc caaaacacat tccaatacca 300  
caactttcct tactcaaata cccagtaaca tcctcttcgt ttcggttcat taactgtttg 360  
atcgattcga gaatntttta gccttgtaat cgattacaca cccttggtta tcgattgcca 420  
gaggtcatat 430

<210> 16666  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<400> 16666

agcttgtttc aaagagggtcc aagaaggata aggcggccga agggactagt tccgctcctg 60  
agtatgacag tcaccgcttt aagagcgctg tacaccagta gcgcttcgag gccatcaagg 120  
gatggtcggt tcgacgggag cgacgcgtcc aactcaggga cgacgagtat actgatttcc 180  
aggaggagat agggcaccgg cgggtggacat cactggttac ccccatggcc aagttcgatc 240  
cagaaatagt ccttgagtta tatgccaatg cttggccaac agaggatggc gtgcgtgaca 300  
tgaggctcctg cgtaaggggt cagtggatcc cgttcgatgc cgacgctatc ggccagctcc 360  
taagatatcc tgtggtggt 379

<210> 16667  
<211> 429  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16667

tgccgccacg gagttttccg actatgctct tgtgtgtgtg gaacaagcta caaaaagaga 60  
gagcaagaat tgtggtttga aagaacaagg gtgatgatga aaggaaggaa agaactactc 120  
tttccagcga gggcaacaca caaagggtga gaaagtcctt tgatacagcc aagggtgttct 180  
tgaatcactc aagaatttag gagaatcact ctactaaga taaaagagat aaactctaata 240  
tttctgaata aaactcaact tgtgtttatt gataaaatgg ttcagcttat atagaagctt 300  
tacagcagat ttttagtaatg acccactaac ctagaattaa aataacttaa tgccattaac 360  
ctagggaatt aaaaaaaact taatggctga gtgtaactga nattgtggca accaaaagtc 420  
acccccaac 429

<210> 16668

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16668

agcttgata acggctggac atgatatatg tcagggtgtt ggtttatcca gcggttcacg 60  
gataaaggaa tatccacat tatttccatg acacgcgtgc aacaatgatg attcataaat 120  
tttatgcaaa acttgatcatg catgcaccta tgtggacact caagcatcaa gttctgtggg 180  
catgtgacac tanggctcaa gattcatttt tctatttaa gtcaatccag tgtttccaaa 240  
acatgctctt ttatcaattc atgcattcat ccgagtcacat tttgggtgtt cgggaaaatt 300  
ttacagcatt cacccttcag gtgtatacat attttttcaa caaacacttc tgtgtttgat 360  
cagcgaatct ttttaaagaa agagttgga 389

<210> 16669

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16669

tgctcttggg ttagacatga ttggtacatg atttgttact tgtaggattc aatttgggca 60

aaattggatg agggaaagag tggttttcga aatctgcact ttatgcagaa ttttgetgtt 120  
 gaaatgtgca gcagaaatth gcataagtgc agaaaaatac tatgtatttg ctggttgtgg 180  
 aaagagtagt acagaatgag ttcttgatgt ttgctagtag atcccaacgg tcaaaatgta 240  
 gacttatgta ctagagactt ccagtaaaat tttcgagtcg atccaacggt taacggattg 300  
 gaacgaagga aatgttactg aggtctttaa gtgagaaaaa gctgtgattn tggtttgagt 360  
 tttgggcaga gttntctgcc tttgccctgt tttgcttggg ttgttagttt gtgatgattt 420  
 ggat 424

<210> 16670  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 16670  
 atcttacgct ccttcaactg cacaagactc ttaatatthg aagagtatac atgtggaacc 60  
 ttcacctgac gaagacactg acagaaactc atcttaccct ttttggacaa agtatgacaa 120  
 gctgctggca ggttgattgt attcccatca gaccttggat gcaactgtga tcgtatcccc 180  
 atcttagata catcttgacg gagattcaat ccatacttca tcttgccctg aatgtcaaag 240  
 agcattccag tcaactctgtc acgtacattt ttcttctgat gcatactatc cgaccaatgc 300  
 cttacgctta gatgacacca tgactgc 327

<210> 16671  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16671  
 ctgccgtcca gctcttacat acgagcagag gtgcttcctc taaacacatc aactcttagg 60  
 acgaatatgt ggtaggacct acttagagca ttcttgcgac tagtcacgtg tttttactaa 120  
 acgcaccctt gtatatthtt aaggaaactc tccacgcaac ctacgagact atgcgaatct 180  
 ctgaacgcta actattattc tatatgtatg acacataatg cattgcagag aactgatgaa 240  
 cgcattctta gctcgctaag aagatcaatg ggagctcact taattgtgcc actgctaccg 300  
 ctttctaata atctgtccat atcatgatat tccggattgt gctcaatcat ctatcgttag 360



agtcctgaga tctctttgct ctcatatatt gcg

393

<210> 16672  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 16672

tgtcttctaca tctataggcg gactgccctt gattgttaac taaggattca tggcgatcct 60  
ctaggacgag gatggaatga tcttaacagc gcccttatga agaggcacat tccctcctac 120  
tatgaaaggg aacttactga caacctccaa gggcttagat aaggacatat gagtgcggaag 180  
aatatagacc acaaatggga ctactctttt tacaagctgg acttacggag gacacaagcc 240  
ttcttcattt gatgagctaa atcttgcaat gtcacg 276

<210> 16673  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16673

tgtttctact tatgtggcag ggcgggctgc cttcactttc ttgtcccca cagcagcttt 60  
gaccaccgct ctttcttccc gcgatgcttc tctttatata cacctgagtg ggcttatagc 120  
ctaaaccata cttgccacga tttcctttgg catttatcaa gctagttatg ctgccgttgt 180  
ctttgcctaa acccattccg ggttcgtaac cgttcccca cataactcgg gccatcatta 240  
ctgctgcaac ggacaggcaa ggctgcctag agaatgagta cacggaggaa atgctgacca 300  
cctcaaaaga ctggatagcg gtatctaacg attcttctgc ggcttcaca taatgcatag 360  
atgatgggca gctcaccaag atgtcttc 388

<210> 16674  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 16674

tgtcgcata aaatcactaa aaagagattc taaggtttta tacctcagat cttctcacca 60  
agtaaaatgg atcactttaa ggtccaacgc cttaaaagga ccaccttcca agtaaaaaga 120

atcatttgat tcgcccttta gaaagaactg cgtaagtctg atttcctctt cgatggaggg 180  
 tacgtatgag caagagcccc gcttttgagg acctcaaaaa taataaaaaa aaagaaataa 240  
 agcttagata cataatttca cacaattcta atctaagggtt gttgttctttt gggacaaacg 300  
 tgataggtgc taataccttc ctcatacgta aatacaactc ccgaatctgg aatattcttc 360  
 atgaccgggtt tccttcgggtt tgtccgacgt gttccacaaa ataacgttgg tggagactct 420  
 gcgcatt 427

<210> 16675  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16675

tgtttgtgca aatcaaata ctcctacgtc tcattcttag catgcatttt ctttctttac 60  
 ccactcctca cgttttgatt tttagggaaa acaccataac taaacgcgcc gcaagggatc 120  
 cctatcgcac cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga 180  
 tgaaagccga catgttggct ctgaaagaac aaatggcctc catgatggag gccatgttag 240  
 gtatgaagca gctcatggag aagaacgcgg ccgctgccgc cgctgtcagt tctgctgccg 300  
 aagcagaccc gactctcttg gcaactacgc accatgctcc ctctaacata gtaggacggg 360  
 gaaaggacgc actgtggcac gatggtagcc ct 392

<210> 16676  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16676

gtgaggggtgc gtagcccacc atcttttcat agtttagtac cgataatgtg tctaccatca 60  
 cgattatcgt ctcccttttt gcacatgttc tgtagttagca tcctatccgg aaccatatca 120  
 gaatagtacc gatactgcct aacgaaggca accattaggt ccttccaagt atggactcgg 180  
 gaaggttcca agttagtgtg ccaggtaaca gctaccccaa taagactttc ttggaagaaa 240  
 tgtattagca gttcctcatc tttgogtatg cccttatctt ccgacaatac atctttggat 300  
 ggttcttggg gcaagtagtc cccttctact tgtcaaagtc tagcaccttg aacttgggag 360

gggtgatgat attgggtact acgaacaact cttctagggt agcaaaggca taatctttac 420  
ctcct 425

<210> 16677  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 16677  
tgcttttgag aaattcaaatt ggtcataact tttcacacgg atggttagatt aaggcgcac 60  
gcatatagag acgctcgaaa atgaacaacg gaagctctcg agaaattcaa atggtcataa 120  
cttttcacac tgacgtccga ttcaggctta taatatattg atatgctcaa aaataaacat 180  
cggaagttct agagatattc aaatgggtcat aatttttcac atggatgtcc gattccggcg 240  
cataatatgt cgagaggctc aaaattgaac atcggaaggt cttgagaaat tcaaattgtgc 300  
ataacttttc acacgaatgt ccgattaagg cttataatat atcgatacgc tcgaaattaa 360  
acaacggaac tc 372

<210> 16678  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 16678  
tcgctagaat cggacctccg tgtgaagaga tacgagcggt ttgttttgtc cagagctacc 60  
gctggagagt ttccaacgct taagacataa gaggtcccg attcggacat cctgggtgagg 120  
agatatgagc gttaggatat gaccatagga atcgctggag agcttcagc gtatagatat 180  
gagctacccc tgaatcgaac ctcttgtga caagatctga ccattaggat atgaccagag 240  
caatctgtga agaatttcca atgttactat atgagctgcg ccacatattg gac 293

<210> 16679  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 16679  
tgcttttgat cttttttata aaaagagaag ttctgaaact catcacgttg tctaaaaagg 60

ccttgaagtg gatccaagtg ctctgatcat tcattagcat attcatgttt tgatggcata 120  
 ctcaccactg tttgtttctt tatggaactc accataacta aaaaagcgca gaggcacccc 180  
 tataacactc gatccagaag taagatggat aacgaagagg gagtgcaaga acagatgaag 240  
 gccaacctat cggcctgaaa agatcaaatg gcttctatca cagaggccat gctaaagctt 300  
 caaacaact atagaagata atgctactgc ggccgcttcc aatacagcta ggg 353

<210> 16680  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 16680

tgtaggggta aagtctcacg attgtcacgt gctcatgcaa caattgttag tcgtggctat 60  
 acgagacatc ttgccaaaca aagttagggt agccataact cgctgtgtt ttttcttcca 120  
 tgctatatgt agcaaagtca ttgatcctgt taagtttgat gagctggaaa atgaggcctc 180  
 aattatactg tgccagttgg agatgtatct tccccgtgct ttctttgaca tcatgattca 240  
 cttgattgtg catcacgtta gagaaatcaa atgttggtgt cctgtttatc tacgggtggat 300  
 gtacccgggt gagcgataca tgaagatctt aaaaggggat acaaagaatc tatatcatcc 360  
 agaagcatct attgttgagc ggtacattgt agaagaagcc attgaatttt 410

<210> 16681  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16681

agctttatag aaacctttgc tttttttgct agacttgaag ctataagaat catgctttcc 60  
 tttgctactc ataaaaatat aaagttatct caaatggacg ttaaaagtgc tttcttaaat 120  
 ggctttattg aagaggaaat atatgtcaaa caacctcttg ggtttgaaga tcatactctt 180  
 ccagaccatg ctttcaaact taaaaaagct ttgtatggtc taaaacagga accacatgct 240  
 tgggtgtgaca gactgagttc atttctctta gaaatggttt tattaaagtc aaagtggata 300  
 caactctttc taaatgagaa gttggcaaag atttcattat agttcatatg tatgttgatg 360  
 atagtatttt tgaagctact aatgaat 387

<210> 16682  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 16682

tgaatgaata taagacacat cttcttcaat cttggtgatt cttgactcca tctaattggaa 60  
gtgcatgtcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120  
atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180  
accaatatgt cgagcaccct ttttcaacca agagccatca tgctcttttt gataaccaa 240  
ggatgcaatg actgaagcgc ctataaggaa ggatctcttg attggaacat agggttcaga 300  
atcaagaggg atgttaaagt gttgaaggaa aagagtgtact agatgaggat atggcaaagg 360  
agcattcaat cgcaatgcct tatgcctgcg atatctaaca agaagtgcc aatcaatttg 420  
t 421

<210> 16683  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 16683

agcttcatga tgaatcaaaa gtgattcaaa gatgttttga tgataacaat gatgacaaca 60  
aaagatgatg acaaagggtga tgaacaatca gctcaagtga atcaaataac atttcaagtg 120  
aatcaagaac aagtcaagag ttcaagaatc aagaagaatt caagactcaa gaagaaagcc 180  
tacaatcaag aatcaagaat caagattcaa gatcttacga atcaagatca agattcaaga 240  
ctcaagattc aagaatgaag aaaagactca atcaagataa gtattaaaaa gttttttcaa 300  
aactttgaat agcacatgag tttttgacaa aacctttacc aaagagtttt tactctctgg 360  
taatcgatta ccatattggt gtaatcgatt accagt 396

<210> 16684  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 16684

tgatttacat tctccccctt tctcaagaaa attcttaatt cttcttgaca tcatcaaaat 60  
 cttcatgatt tacaaaaaat tttagaaagc ttttgccaaa ggaagaagaa gttcaaagag 120  
 attcaaggat tgtaaaggat tgtaataatt gttcttaaaa tgcaagttaa ggtcttgctt 180  
 ttatagactc ttcattgtctg gtcaagagaa ccattacaag agttataacc tttacaaaaa 240  
 cttgaaaacc attggaaaag ttataacttt tagaaaaact taaaaacat tggaagagtt 300  
 acatcttttg attttttgtt cacaacttat cactagtaat cgattaccaa atcattgtaa 360  
 tcgattacac aaagcttttt tgcgacagga tgtgactctt aacaattgga tttgaatttc 420  
 aaca 424

<210> 16685  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16685

agcttgtctc agcgtttatg cgagacagag accaacaatgt tagtcatcat cagcaagtac 60  
 caagaagaat taaatctagc catggcccac gaggacaaaag tggcggacga gtatgctcga 120  
 gtgtacgcgg aaaaggaggc tagaggaaaag gtgatcgact tgttacatca agaggcaaca 180  
 atgtggatgg accgatttgt tcttactttg aacgagatg aagaacttcc ccgattgctg 240  
 gccaaaggcaa aagcaatggt ggacacctac tccgcccccg aggagatcca caaacttctc 300  
 agctattgtc agcatatgat agatctaate gccatataa ttaggaaccg ctaggaagtt 360  
 tgtattatca ctcanatctt gactagtatt aacttt 396

<210> 16686  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16686

tgtagccatt agaagagaat gagcatgtga ttggaattat tactgaaaat gttagtcaat 60  
 ttgtcagatt gattgtgaag gaatgcatta acagtatccc ggtgagagtg tggctccttaa 120  
 attttgagat aaatgactat catttagtac tgatttttgt gtgaatctct gaagtatgga 180

ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagg aacttagcca 240  
 aaaagctgac cacgtgcgtg aatgatgtat cctttgcacc tagtttgagc ttaatgaatt 300  
 attgattgat tgaagcctga gcctacagtg ttatctcctg ctacottgac ttangttgta 360  
 ggagagcatc atccacagga agcgcgattc anagcaaatt tgtcccaaatt tttggggagt 420  
 aattat 426

<210> 16687  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16687  
 agctttctgt aatcttttgc aggtttttat aagattttga aagaatagat gagttcgaat 60  
 aaagttcatt ataggcttgt tttggagatt cacagtcatt gcaatctacc tcatectctt 120  
 gatctaattt agattcttta aaggctgtgt ccgccatcat acatatgttg tttacaactt 180  
 ttgatatcat ggttggggtc aggggaacca attatgggga tgtatgtttt gccctgtgca 240  
 tgctgggtttt caagaaaaac tgtgttctta actaatggga tgtgatatat ttgtttattga 300  
 tgtgcatgct ggttttcaag aaaaactcat gttttaacta atgggatgtg atagggttgg 360  
 tattgatgat tgaaattgtc aatgatgt 388

<210> 16688  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 16688  
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 aagagaaggg ttaaaaagt ttttcaaaaa ctgagtagca catgaatttt tcttgtcgca 120  
 acatgccctt ttgcggggcga gcgaggcgag gctcatgggt gtgctttcca aaggaggaaa 180  
 gatgcgcaga gtcaccacca acgtttattt gtgggaaacg tcagaaaaac cgaaggaaac 240  
 cgggtcaaat gaaaattcta agttccggag ttggattcac gtttgaggaa ggtattagca 300  
 cctctcacgt ttgtctcaaa ggacaacaac ctat 334

<210> 16689  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16689

agctttttacc tttcatttta acccttagaa cttctcggcc aacaatgtca tagataaaga 60  
 aatggtgatg ttcaaaggac acttttaaate cttttttaat caactgacct acacttagca 120  
 agtttttggtc aatgttaggt acataaagaa catctgatat tagtttgata cctgaacacg 180  
 ttgaaattgc aacaattcct tttcctttta ctggaatata gccaccattc ccaattttga 240  
 cctttgagac attagttggc ttcaaatect tgaatagagt cttatcatat gtcattgtgt 300  
 tcgtacaacc actaccaate aaccaacttt cacttgattc actactcaag aagcatgtgg 360  
 ccacaaacag ttggtcctcc tcgtcttgat tag 393

<210> 16690  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 16690

tgatttgtga gttgatttta gcttttagttt cactttggtt attagttaat tcattcaagg 60  
 aaactttcaa agaaaaaatg tccgattaat ttttcttgat tattttatta ttttttttca 120  
 agatatttta attattttat tattattttg ctttttttgg ttttaactgag gttatagcgt 180  
 gaacgatcgg ttagattttg ttttaacagt gattaaacga gattacaaca caaatgatcg 240  
 gttgaaattc attttatcat ttattaggtg agaaaatggc ttaaataaac ggtcaaaagc 300  
 tcgtgaaagc agaagaaaag aaaactgaaa gtaagcaaaa ttaaagtga agtacacaaa 360  
 acaagtaggg accactaagg gtgcataga tgaattgaaa gattcgattt cggggaactta 420  
 ccgattg 427

<210> 16691  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 16691

agcttcttga tagggcccaa actccactcc aaaatctgac ttcaggctta aatagggtgc 60



tttgtttgtg cttgtgtgct tagcgcaatt ttgaaccgct tagcgctcat taatggattt 120  
 tagcttagcg tgtgcttttc tcgcttatcg gatggactga agcgggtgcg ttcgctggat 180  
 gaccttttgc ttagcacaaa tgcacaactc atccttcttc tagattcttc ctgcgctta 240  
 gtcgaggagt gttgtgctca gtggatggct cgctaagcct gcaaattggc ttaaccatag 300  
 ggtgaaaata agcacttcac aaacttgccct aattaacctg atattgagaa aaaatgatta 360  
 ttaaacacac tgaatggaca tact 384

<210> 16692  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 16692

ctcacgcttc atgcttaact atgtatggca aaacttcatt attgttgttc atgacataca 60  
 agtgagcttg taacagatct tctacacttg gagtgatcac atgcagtcct tttgaaccct 120  
 taccaccac tttgtcatca tgccgagact caggaagccc aacagggtta gccttctcta 180  
 agtattctga acaaaattca atggcttctt ctgcaatgta cctctcaaca atagatgctt 240  
 ctggacgata tagattcttt gtataccctt ttaagatctt catgtatcgc tcaatcgggt 300  
 acatccaccg tagataaaca ggaccacaac atttgatttc tctgaccaga tgcacaatca 360  
 agtgaatcat gatgtcaaag aaagcagggg gaaaatacat ctccaactga cacattataa 420  
 ttgcggcctc at 432

<210> 16693  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16693

tatctttgca gatttggctt tcgccagtga aaggatcgat gtgggtccga aaagaggcaa 60  
 atttgatcat cctactagga cgactgagaa aactggggca aatgaagagg gtgagaaaga 120  
 gggagaaacc catgctgtga ctgccattcc tatacggcca agtttccac caaacccaac 180  
 aatgtcatta ctcaagtcaat aacaaacctc ctcttacc accaccagc tatccacgaa 240  
 ggccatccct aaatcaacca caaagcctgt ctaccgcact tccaatgacg aagaccacct 300

ttagcacaaa ccaaaaaaaaa aacaccaacc atgaactgaa ttgtgcagcg agaaagcctg 360  
tagaattcac cccaattcca gtggcctatg ctga 394

<210> 16694  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 16694

gcttgagatg aggaagtgtt gaaggggtgaa acttcctgct tttattgttg accacatagt 60  
ggtacctgga gatatgtcac ggggggtcagg agaccttggg gacgtcaggt ggggtgctat 120  
tgcccaaaac caagcttgac caatcccgac ccaccccgag catagtcggt cagtgagaac 180  
ctgtgatgta cctaaacagg cgagctcctg gcagtcaaca gataaaaagga acaaagacca 240  
caaagcaagg aggtttgttg tggctggcca gctctgaaac ttgattgata tgtgagatat 300  
ggtctctggt aatcgattac caaggggtggg taatcgatta caaggcttaa caatgaagat 360  
aggaggctaa gatgggtctct ggtaatcgat taccacgggg tgtaatccat taccaggctt 420  
ga 422

<210> 16695  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 16695

ttgctttttc cttattcctc aaagaaaagg ccaacgtatt tgcattggaag ccggtggata 60  
tggtgagcat agatccaaac tttttctgtc ataagttgat agtaaaccct ttagtgaaac 120  
ctgtgtgtca aagaaggagg aaaatgactc tcgaatgcct agaggaaatt gaaaggcaag 180  
tgaaggagtt gctaaggaaa ttgaaaggca agtcaaccct tcagcgaaac ctttcatacg 240  
acttggctgg ccaagatcat cctagttaac aagcataacg gaaaatggag aatgtgcatt 300  
aactacttga tctaaacaaa cattgtctga aagactcata tccgcttccc gacatagata 360  
aaatggcgga tagatctttc gactactgat att 393

<210> 16696  
<211> 422

<212> DNA  
<213> Glycine max

<400> 16696

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ctttaatcga ttaccatgtg atattatcga ttactttctct tttaaaagtg ttttagaagt 120  
aatcaagaac actttaatca attactttctc ttttaaaagt gtttcaaaag taatcaataa 180  
cactttaatc aattacattg aggatctagt cgattacatt attcttgaga ggtttccaat 240  
ttttgggaag aacactaatc gattgaaatg ataattaatc aattactttg ttgaaataat 300  
cgattatagg tggttataaa tatttttctct ataaatatcc accttggtgt ctctcttata 360  
acaacttaac gaacttctaa cagtgcacaaa ctattttctga atgagctaga atcacgagtt 420  
ga 422

<210> 16697  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 16697

ttgcttgtgg ttcagggtcaa tggaacatga ttgtacgata agtacaaggg gaccctcctt 60  
gtggcagttg cacaagatga caacaataaa atccttccaa tagcttttgt tgttgtcgaa 120  
agtgaatcaa caagagcatg actcttcttt ctacaaaatt taaaaaggca tgttactcca 180  
caacatggtc tatgtttgat ttgaaagaga acaagtcaat aatagtggtc tactcaagac 240  
gtgatagtgg gtggacgaca cagaattcta tgcattgtgt ctgcatttga cacattgcac 300  
ataattacat gaggagatac aagaacaatg ccatcaaaaa atcaatatga gtgagtgtca 360  
aacttctttc tcttcttatt aaatatcact tcat 394

<210> 16698  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 16698

taagctcttt caattgcaca aggctcttaa tattttaga gtatccttgt ggaaccttta 60  
cccgacgaag aactgacaa aaacttatct tctccttttt ggacaaagta tggcaggctg 120

ggggcaacta aattttcttc ccatcagacc ttggatgcaa ttgtgatcgt atgcccata 180  
 cagcgagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaagaagcg 240  
 tccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtgtaa 300  
 cgtcaagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
 tcttactttt atccttcttt tgggtctttc caaatacaat attcaggtgt tgaacccgct 420  
 catata 426

<210> 16699  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16699

tgcttgtttt ttagcaggaa attaaaaact gaaattatag tgggagaaaa aatactagtt 60  
 cccaacgttt caactttttt tgggtgtacat aatggctaaa gtccaccgga ttcacctgat 120  
 agactggtaa tctttgtatt ttaaacaatgt gccaataga aaaataaaaa tgacacatga 180  
 tgtagctta gcaagcgaat acgagtgaat aggaatagag atttgatatt atgaggggaa 240  
 cgaagcaaag ttttccagaa caaaaacatt tcttcaccaa tcacaaggat cacctttcct 300  
 atttattgtg attgtgaaca tcatgatcct aagcatcagc gtttcgctgt ggctagaata 360  
 ttgagtaatt gtcctctaata acgcacctga tt 392

<210> 16700  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16700

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 aaactatcaa aacttaacca ccaagcagaa actatacttc aaagtttaac cactcgataa 120  
 aagcaacgag gcttaaccat taagagcaga aacaaaacaa cgattcaatg ctttaaccatc 180  
 catgtcaaaa acttaaacaa tgtttaatca ccgcggacag aagcttacca ggacttttca 240  
 caaacatttt gtgaatcaac aataatcaaa gcttaatcac tcatgataga agctaacaaa 300  
 tgaacaatgc ttaaccacca cacatgacag aagctaaaat catcagaaca agtcgaaaaa 360

ctttagaagt atttaaatcaa acaccttgta gacaaacaaa atctgaacac tagacatgaa 420  
gaaac 425

<210> 16701  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 16701

ttgtttttta tgcattagcc tgagcaatct ttgaatctca agccaatttg aattgcatgt 60  
gaaagttatg aacaaattag gaaacccaat aacccccacaa attgtcattc aatcaaaaata 120  
tagttgatcc atatatcttt gatttcgaac aaaagttaag ggtagaatga ctcttttccc 180  
tttatttgac ccctgatttt gggctctgatc ataacattac tgcaatttgt tggattcatc 240  
aactcttaat tatttttttgt gagtcctgat gaaatacaat ctttcggact ccatcatgca 300  
atatctgtca tctacaaatt gttgaaaaag tttcctagat ctcaacattg tccttcatct 360  
tttctggtat gaatacaaaa a 381

<210> 16702  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 16702

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ttagagaact tttgtgagag gtcctcgtaa ttcatatccc accgctcact tctcagatac 120  
tgtggcccac accaagtggg ttactaacta tgagttgaac ttgtccggag atgatagata 180  
ttatcctaag catataggat ataaacatct ttatctctaa aaaatatcac actgtgtgat 240  
gcatagacag ctatcaaaaag gcttgacctt tttattaaca cttcataggg atcgccaaaa 300  
taaaagatgg tgctattgtg cgggataccg cctacgggta gtattatcct ctacgtgagg 360  
ctcacct 367

<210> 16703  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 16703

ttgtttcaat attgcaatcc aacacttgta ttttcagctt tagcattttt ggggtccaatt 60  
tgtaattagt ggcccagtta cacatttatg tagatttttg gacagtgtat cagtgagatt 120  
tatgaaaata tattcgaaga tatcgtgatg tatgtagtat tgattattga gatttagagt 180  
taatatcatt aggatatgtg atcttatctt gtcttatctt tagaatcggt gctttattaa 240  
gatgaggatt ccatcttatt aagattttgt tcctctatta gaatcaagat tgtatataat 300  
cttatcttta tgttatataa gattatgaat tgtttaggat ttatatattt tctttcttat 360  
cctatatatt ggaacccatg 380

<210> 16704

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16704

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gtggacatac ttttagtttt gcaggcgagg tctaacatgt taggtgagga tagtctctgt 120  
atttggcaac tctgtccttt tctgacaatt ggagatcgca ttgaagacat acgttatgtt 180  
ttgtcctttg atcaagcgtg tgcgacacat gtgcagcaact cttgcataca agttactcga 240  
ggagtgggca cgtactggag acgtgatgcg tgagcgagtg gggctgtatc gtgggtcgaa 300  
aagctagtgc accacttcat ctcccgaag ttaccaaaga gcttgtctcc tctataaatg 360  
cagtggatgt ttgatttgta gccaccatta ctatgagatt attgtctctt tctcttg 417

<210> 16705

<211> 387

<212> DNA

<213> Glycine max

<400> 16705

agcttcaa atattgactt aaaatttgaa gccataaatg agtaataatt ttttttggga 60  
atcatttaac ttgccctcaa atttatttca acaggttctt ttagtgtagg ttaatcgctt 120  
tagtatgtga tgtattgatt gtttcttttag gatctgatct cgtgttacia gtatgatgtt 180

ggtttgtacg ttcaaaatTTT aaaatattta tcgtattgtg taactataat taaatgctta 240  
 tttattaatt aggaaatgtc tactcctatg ttattaagta ttgtgtcatt aatttttagta 300  
 taaaaaaaaa gtatattgtg tcatgaatat gcaaaagttg aattggtatc cttcaagtaa 360  
 aattggatga atgatagagt ttattat 387

<210> 16706  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 16706

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 ctagtgatgt gaccaaata gtatatataa ctgatctctt gagttagctt ttggagttga 120  
 gttaggctaa gctcaaaatt tcaagaggtt tgatgatacg ttctgtatca atgggtacttg 180  
 caaatcacia aaggagaaga cagcaagaaa gggaagagat gttagccaag agccgaggct 240  
 ctccaagcaa gagggagggt ctctctgcta cccaaattcc actaaggatc ccaatggatg 300  
 atcctgaatc atcattacag aattttatat aacagaatgt cagaatgtgc acacacacac 360  
 acacacactc cactaactaa ctgtccgagg ggcgtttcct aatctgtcct ccctattcac 420  
 act 423

<210> 16707  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16707

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 tatcacgggt gatattaaat aaactgccta gttataaatt atttcatgca ttgggctgat 120  
 aatagcttgt cattaagatc tctatacaca aaacagaggc cttcaagttc aatgaagtta 180  
 actacttcag tacttcatat atgggacgca gtatatataa aatggatact tctttgccaa 240  
 aaagattaat tagtataaat attttaaaca ttttatattt aaaatggata ctttttaatt 300  
 aacaatatat atatactcat ttcttctttt aaatgaatac tttttaattn tatttgatta 360  
 catttaatta acttgggtgac agat 384

<210> 16708  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 16708

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 tttgagaatc tctccaataa caaaatatga accaagtagt aaaaggggtga ccaccgatct 120  
 tcctcttata ttcaccctca ctaactattg tgctccttcac aggacctata tcattctatc 180  
 tgtgggctta aaatattgct cgctaagtcg tttatctaca tcaaggatat catatttggt 240  
 caccaagcca ttgggagaga aatcaatctc ttcttaccgt gttgcatcga atgtttctct 300  
 gctcatttcc ttcccttt 318

<210> 16709  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 16709

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 tgcaacacat cattctacat gtcacatctc attgctcaaa ccaaattttg cttctttata 180  
 tatatatagt tactaccctt cegtttcaat tggagttaga tgatttggcc tctagcttaa 240  
 ctaaaaaata tactctcgca tgttgttagg gtgtggatgc atgtcattta gaaataagct 300  
 tccttgtggt ggatgaaact acgattatct ttggtaaaat tagctgaaaa gttaattgat 360  
 aggtgaaagt taaaaaatta atttattaaa ttat 394

<210> 16710  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16710

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 ttcataatag ttgtgaatga actgtgacaa gataaattac aaaagctgtg ttctggttac 180  
 ttgcaatgta ccttttaaat ttgattaagt ctaatttata acataattaa gatagtttgt 240  
 taaaaatgctc actactataa aagaaatagc tatcattaag tttaaacct aacaggaacc 300  
 agtcaaccgt ggctctaagt atacactatt tgcaatgaca ttcaaattct tgcgtcact 360  
 tataaaaacc acagccacta gcccggaat aaatatcata actatgatga aatattttgt 420  
 cat 423

<210> 16711  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16711

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 gagtcttagg aagggatat taaataggaa gggaattcct aattgaaata gcaaaagggt 120  
 tggccaagaa atttaagtta aaaagtcttt ttcaagagat ttactctctg gtaatcgatt 180  
 accagaggat gtaatcgatt atcagtggcc aaaaatgatt tacaacagct attaaaattt 240  
 gaattcaaaa tttgcactgt gtaatcgatt acacatatat ggttctcgat taccagcagt 300  
 tattgaactt ttttaattcac attttaaagg ttgtaatgga ttacacacat actgtaatcg 360  
 attaccagag gagattttca gaaaatattc tca 393

<210> 16712  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 16712

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 taaatacctt atgaccataa ctgagggtta tgaagctaag cgccagtcac ggcagctaag 120  
 ctgaattcct tgcagcaatg tgagcgctaa gcaagtcctt attagctatg cgcatgctcc 180  
 tctatactta agatgcatca ttttagctaa gctggtcaga gcctggctta gcgagagttg 240  
 cagcttttcg gatctgcaaa cctcactaag cggccttatc ctgcgcgctaa gccaaagcttg 300

tgtgaaatat taaaaaaaaa cttattttga atttgaaacg ttggctaagc gcgtgggtcc 360  
 actaagcaag ccttgctgag aaaccaaag tctctctggc tcgcttagcg caacagtccg 420  
 ctaagcaaa 429

<210> 16713  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 16713

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 tcacgtcaga ttaccgtttt aggagctctg atcaccattt gcgcattaag gccattaatg 120  
 gatggcagtt tctacaggag cgacactctc aattcaagga cgaagtatat actgatattc 180  
 aggaagagat agggcacatg gggaggacat cactggttac ccccatggtc atgtatttat 240  
 cagaaataag cctagaggtt atgc 264

<210> 16714  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16714

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 gactcttaca cccagtgggt tattgatagg accaaaagct ttggcctacc ctaccgctta 120  
 cctaaatacc tatcgtccac catcccacca tcatccttgc ctatccccctt tgatactaata 180  
 gaatagtttc atgaacaatt aaccactac tggcaagata aagaaacttg gatgaggaga 240  
 tgccaggagc tctaccatga gaatgatact ttgaagggga agatagccca acagaccgga 300  
 gagcttttta tccagaacca gaggatgatt gagaaggacg acttgcttcg tcggaaagac 360  
 tctgtgctcc accgagatgc tagaatgaag aggacgttta tggattcggt ctcccgtgca 420  
 cattc 425

<210> 16715  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 16715

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atatatcgag acgctcgaaa ttgaatgttg atgctctgag caaattcaaa cgacaataat 120  
attttactcg gatgtttgat tgagtcccgt aatatatcga gacgctcgaa attgaatgtt 180  
gatgctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttcagtcccg 240  
tcacatattg agatgctcga aattgaatgt tgaagctctc ggccacttca aacgacaaca 300  
acattttact cggatgtctg cttgagtccc gtaacatatc gagacgctcg aaattgaatg 360  
ttgaagctct cagccaattc aagcgacaa 389

<210> 16716

<211> 426

<212> DNA

<213> Glycine max

<400> 16716

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cgatatatta cgggactcaa tcatacatcc gagtaaaaag ttattgtcgc ttgaattggc 120  
taagagcttc aacattcaat ttcgagcatc tcgatatgtg acgggactga atcagacatc 180  
cgagtaaaaa gtcattgtcg tttgaatttg ctcagagctt caacattcaa tttcgagcgt 240  
ctcgatatgt tacgagactc aatcagacat ccgagtaaaa agatattgtc gtttgaattg 300  
gtcagagct tcaacattca atttcgagca tctcgatata tgacaggact caatcagaca 360  
tccgagtaaa aagttattgt cgtctgaatt ggctcagagc ttcaacattc aatttcgagc 420  
gtctcg 426

<210> 16717

<211> 374

<212> DNA

<213> Glycine max

<400> 16717

tgcttattgt atatgagtgc atgtccaatg gatctctctt atgatgacct acactctagt 60  
gataagagaa aggaaccact aacatggaaa cagaggctaa agatctacat aaaagtagca 120  
catgaccaca ctactttgac acagggtccca agtgaaccat cttatatcat gacgtaacac 180

cttataaaac tgttttcgat agcaacatgg tggccaaact cttagacttc caactttcct 240  
tataaggact gcattatgca tcaaagcaaa aaccatagac aatgtgtgtg tgtgtgtgta 300  
cttatggtga tgaggggtgtg tgtgtgtgtg tgattacggt gtgtgtgagc agattacgat 360  
ttgagtgtgt gaga 374

<210> 16718  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16718

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aacccttga actacttcac atcgatttat ttggtccctc tagaactatg agtttaggtg 120  
gaaattacta tggcttagta atagtggatg attactcaag gttcacttgg actttgtttt 180  
tgaaaaccaa aaaaagaagc ttttgatgct tttcgcaaac ttgccatggt gattcaaaat 240  
gaaaaaggtc tcaacattgt ttcaattaga agtgatcatg gaagtgaatt tcaaaatgat 300  
tcttttga aaactttgtga agaaaatgga atttaccaca aattntatgc cccaagaaca 360  
cctcaataga atgggtgttgt ggaaaggaaa aatagatccc ttaaagaagg tgcaagaacc 420  
ct 422

<210> 16719  
<211> 386  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16719

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tcaaaaagct ttcaactaaa ttacaacat tccaatcaat ttcaaatgg tgtaatcgat 120  
tacaatatat tggtaatcga ttaccagtga gtttgaacgt tgaaattcaa attcaaatgt 180  
gaagagtcac atcctttcac aaaaatgctt tgtgtaatcg cttacaatga tttggtaatt 240  
gattaccagt gataagttnt aaacaaaaat caaaagatgt aactcttcca atgggttttca 300  
agtttttcta aagggtataa ctcttcta atggttntcttg accagacatg aagagtctat 360

aaaagcaagt ccttaacttg catttt

386

<210> 16720

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16720

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tctgacacaa tggctcctagg aaaaccatgg agtctcaciaa cttcccttaa aaagagtttt 120

aagatgtggg aagcatcatc catcttgtgg catggtataa agtgtgccat cttgctaaac 180

ctatccacca ccacaaagat agagtctaca cctctttggg ttctagaaag cccaaggaca 240

aagtccatac taatgtctac ccaaggtgca gatgggatgg gtaagggtgt gtatagccca 300

tgaggcatca ccctagactt ggcttgtaaa caagccacac acctagtga aagcttatgg 360

atatctttct tcacacggng ccaataaaac ttgtctctga gtatgacaag ggtcttgtct 420

atccca 426

<210> 16721

<211> 389

<212> DNA

<213> Glycine max

<400> 16721

ttgcttggtt cgaggtactt acccgttgaa gatcgaagaa cgatgaagaa cgaatgaaga 60

acgtcgaaga acggttgaaa cttttgcgaa attcttcacg gaaaacgtta cggaaacgtt 120

tcggaagcgc ctcggttag attttcttca cggaaacgat ttttccaagc aaattcgaaa 180

gagagagaag tgccaaaggg gctgaacccc ttccttcttc acttcctccc ctatttatag 240

caaaataggg gaggtggttg ccgcccagct cgcccaggcg agccaggttg ctctctccag 300

aagcaacagc cttctggagg aatcttcttg agggcccaag tgggcctggg tgctatttgc 360

acccccattt ttactaagta cccccccct 389

<210> 16722

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 16722

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 ttggggccctt ttacatgtgg catgctacta tgcaaagaga gaaagagggg gtggtgccac 120  
 aaacatcttc tacaatgtat cttgagagaa atacatctta ccagtgtcga cttgtgctca 180  
 gaggtgactt ttagtcaaca attcaaatac aatgttagta gcacatgaaa aaaggaataa 240  
 agaatgtcaa gacaacacaa tttaaaaact ccatgtttgtg cactatggca tgtatgagtt 300  
 actaaaccat ggatgttact tttggatgat aacttctcaa ttcttgggga ttgagtagtt 360  
 gttccatttc ctttggactg cgacccaaat gctaaagcac tntgtcatac cctaatttcg 420  
 tctgg 425

<210> 16723  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16723

tgcttcttga gatgcctttc agttatctca ttagaggctt tggtaaagtc tacaatctca 60  
 ttagaaatat cgatagtga ataatcaatg aatcttgagg tcaagactgc atatggaaat 120  
 tcataatcca ccagtcaata gcttttcaac atgatatctt caatcaacag taccgaattc 180  
 atttgaatac ttgatttcat cccatatata atctacaagt cgtcgttcgt gacttgagta 240  
 tgactgttgg atcttgggtgc tagaatatat gtaataatgt ataccaacat tttgtcttcc 300  
 gctatcagac caccaatacc caatctgttc cttacaatc ttgtcgggtc aagaagcata 360  
 cctctgtatg tggccatttt gctatagtca t 391

<210> 16724  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16724

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 cttgagcttg acctttatag taaacaaacc aagccgagcc gagccttaaa taggccgagc 120

cattggccct tgacaagcgg ctgggtcat ttccatccct acttgcactc ctcacctcct 180  
 tgagggctag aatgcatcca ttgcctcaac tcaccatcac ttaaactagc atgcttagcg 240  
 caggtgattc aactgatttc gcatgtttta taagtaggca agtaaataat tacatatcca 300  
 atttattaag gtcattgttt tttttttttt actgaaagga gcttatctaa tttcattaat 360  
 aatcaactac tcaatacatg acaaaggatg attgaaggta tagagggttag ggaagaatga 420  
 agc 423

<210> 16725  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16725

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 tgacatgcaa ttttagttca cttttcaa at tgttgttcaa aacagaaagc ctttgagctt 120  
 gtcacatgcat ctcattaaat gtttctaaaa gttctccaaa gtcagaattt acctcaattt 180  
 tttcacttgc tgacagatca tttatggatt ntgccataaa gcacacgcta ncaatttctt 240  
 catcatttga agagttggaa gttgttgatg cactatcttc ccatgctatg taagcttact 300  
 tttgtttttt atccttcttc ctttctttt caccaccatg ttntctaag tagataagac 360  
 actcatgatt aatat 375

<210> 16726  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <400> 16726

gacctatgaa actcagctat tggaatatcg ctaaagcctg ggattgtgtt ctgggtgttt 60  
 ggtatgcttt gagttttata tcattgataa tgattctgac tagtaagcct tgaatctttg 120  
 agactaaagt aatttttcct gaagagatta tttgtcta at gattatgaca agcaatcaaa 180  
 tgctggataa agaatatatt ttatccaaac ttcagtaaga gcgtgcgcaa catgtgtata 240  
 taagcttgtg tgcattgtta ctttctgtgaa acatcaatta ttaacttttt attgttttaa 300

gacaaataag agcaagggtg gacaacatgc aaaccatttt gaccttttat tgaaatttaa 360  
 cttatgagta attgaggaag caaagatcaa acacttaatt acttagccat aaagattata 420  
 ttttcttttt aataa 435

<210> 16727  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16727

gagatttcta cctcgggacc ctgtgaagct caacatgcta cctgcaagct tcttattgta 60  
 atacatcgca agcgactgac ttaataaatg tgacttgcaa aaattcacct aatcgatcga 120  
 gaaaaatata agagcattca tcgtacgcaa aaaaagcatg ctacccccca gaattaatac 180  
 atgtgaatac cataattaga catggcgatg gtgaaaataa taaaacccta tggttattac 240  
 ggcttcacat taaacttaca aattgcatct gatcatgcaa tagaaatagc gagctcaata 300  
 tggaacttgc agacatctga caaataatac atagatgatc ttatctctat cattcgaca 360  
 agagaacaat ggtggaaaca cactgcttac aa 392

<210> 16728  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<400> 16728

tccatacctg atgatcagcg aaacattgct cttctcatac ggaacaatga acataatcac 60  
 cttggatttt gactaatttt tgctcaaatt aaatcgtaat tcatcttggt acgaactgat 120  
 taattttctt cactttattt cgatttcagt tccaagcaat gacaacgagg tccatgcatg 180  
 cattatgcat cacatctcat gggaatctta tatcaciaag tgcttatgat tatctggaaa 240  
 gccgca 246

<210> 16729  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16729



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aaagagtaat caggttgttt gttgaatagt ttctgataag gaacttcatt atttatagca 120  
tatgagggca atctgttgat gaggtaaatg cttgagacaa aggcattggc ccaataatga 180  
aaaggtaact tggcttgaga tagaaaagtg agacccaact ccacaacatg tctgcgcttg 240  
ctttctacta ctccattttg gtgatgagta tgatgacata ttagtttgtg ctgaatacca 300  
tgctctgtca agaattttgt gaaaggctctg aactccctc cccaatcaaa ctgaatagcc 360  
ttgatagaca tattaactt atttgaaa 388

<210> 16730  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16730

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aacaatatga gttacttgat gatgcacccg tgagaggcac tagattgctc tcagatattt 180  
atgaaagatg caatgtagca gttctagaac ctgcatgata ttggtatgca aaggaggatc 240  
caaatggag tgctgcaatg caggaggagc ttgtcatgat tgataaaaaat caaacttggg 300  
aactcgttga aaggctctgaa cacagaaaag tcataggtgt gaagtgggtg tttagaacaa 360  
agctgaatgc agatggctca atcaacaaac ataaagcaag gttagtagta aaggggtatg 420  
ctcn 424

<210> 16731  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 16731

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accaaattga tagagaaaaa tctaaaatca tacatcttag gcaaataagg catgctagcc 120  
cccaacatta ttgcattttg attccatctt tggacattgt gattttgaaa attagaaaac 180  
ccaaagttta ttagggcatt tcatcaaaca tacaactccc aactgatctg gcaaaagaaa 240

tagtgagtag aaaatggaac ttgcagacaa aaaacaaata aaagaaagat gatTTTTctct 300  
 ttatcattcg cagaaaagaa aaattgagga aacacactgc aaacaaatgt ttagatttcc 360  
 ttatgtgaca ttatactaac tagtgaaaat ttagcag 397

<210> 16732  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16732

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 ggtttgtgtt ttggaagaaa aactcgaaga aaaagggttg agtttaggtg tatatttctc 120  
 ttcatagagt ttggccaacg aaattgttct gagaagtgat gtaggtgatt gtgcaatgac 180  
 atccattctg atattaggtt ttaatcctcc tacaagcaa tccaatagag cttcttgtgt 240  
 aattccttgt actcgattag ctaaagacgt gaactgcacg taatatgact gaactgaacc 300  
 aatttgagtg agtttaaaca actgagatct angacattca cacggtgatg ggccaaattc 360  
 tgtctctaag gctcgcgtaa aagcaatcca tgttgtgaat gaattttcat gagtcatca 419

<210> 16733  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 16733

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 gttaaagtta gtaaaactta gtggtttgtc aagaaatgga catagtctcg gtagttgaga 120  
 cgaaccaata taatttcattg tgtcttattt tgtttatttt ctcttatgtg ctttaaactg 180  
 attcaagggtt caaatttgat ttttgtaatt aaaaatctct atttatttgc aagatttgaa 240  
 actatcttct aaatcgtttt gcaaaaatat gatgtatgct ttctttcata attcactatt 300  
 agacaataat attgttgttt tagaaaaatg ttttaaattt tctaaaaatc ataattcaat 360  
 ccctttcttg tgatatatgt ctctacaaag gttcatg 397

<210> 16734

<211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16734

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gcattagaac ctgataatga taatggaatg atatagttag ttagtttcaa tcacattttt 120
gttgaagtta tttggggggca aagaattaag agcttttctat caaacttctt cagaatgaca 180
aagcctatat cagtacccta agcacgtaat caaaaggggc ccaaggaaga cttaacgcag 240
catggtgcca atattaaaaa aacgcattaa tgatagccta attatattat taatttgtgg 300
gatcacgtta cgtcaccatt tacatccata aatccaccaa ccaatcgtgc tataccaaga 360
tgcacgcaat aagttacatt ttacacacca ccatacatat atacaaaatg ctagatcgca 420
at 422
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<210> 16735  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 16735

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atttgaattt gcacattttt atttgttagt cttaacttag caattaagct acgttcctgt 120
tttttgttct cccgtcctat ttcggtggta tatatggatt ctgacacttg ggcagtcgat 180
ctgttattat atgcaaatgc aattcatccc aagtttgcaa cacaagtcaa ccaaggaaca 240
atatacaaat aagtttcctt ttgtggaatg ttcttagagt ttgtgtaaag taagccacac 300
aatttttata aatcgtcgaa taaagttgca catccttcga ctaaatttgt attaaacgtt 360
attttactgg catattctgt ttaatttgag tcct 394
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<210> 16736  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16736

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 ttctgtaatt tataaaaaaa ttaaacatat ttgcatcata attttatcaa tctactagttg 120  
 taacttgacc aaatccattt aggtcaatat tgatattcat tctttcacac caatatectc 180  
 cttttcaaga ttatatatgt aattactggt tataattaaa ttagttatgt tttaaacata 240  
 ttttcttata taattacatt ttttgtgtca gatgccgtgg ctttcaactt atgtgatgaa 300  
 ttcttgcttg taacttatgt ggtcatgatt ataataaata aattttaata agaaaaagta 360  
 acgtccatta tttatttttc ataaattctt tgtcccatcc tttctcttca ttnttcttat 420  
 gacctttc 428

<210> 16737  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16737

agcttgcata accaccaaat tagttttgca tcccgattat tgaaaagtga cctctagcaa 60  
 gcacaagaac ctttctaagg gccattactt aagtcttggc cttacgcgta tcccgggtcaa 120  
 agtatgtcga gctcacttca acatagattt ttgtctaagg tagatccact atcggcacca 180  
 tcaccatcca aatcgacatg gatgagatga agcttccttt attctccttc ctcaatagtt 240  
 aaaaacctag atatgaagca aacatcttgc attaagcatc acttgtcaac ttctcaaacc 300  
 atggcgctca taatgcatta aatgtgatcc attactagat cccggatttg atttcgccac 360  
 gaacaaccta agacttgaca tatggtttgg tagag 395

<210> 16738  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16738

nttgagtaa gtaggggcac tttctagctg tcaagatggt ataggagaca aaaccattat 60  
 gaggttccat tctgaggttc tcattttgaa gatcctttat aatggacatt ttgaagaacc 120  
 atcagaataa tcatttcta gtttgctgag aatgaatcca tactttgatg aattcccttg 180  
 atgaagttca cattgatatt tcattttgat gtagtgcagc ttcaacactc ttaacacttc 240

tcacaacatc aaagcattct aaagttgatt acttcagaca aatttaatag aagttatggt 300  
gttggtgtgt tagtattatg tccaaggtca gattgagtag tattcttcag tcttccattt 360  
tgatgtttgt catcagtgtt tctcatggac aacttcattc aataatctag cacttcttat 420  
gcagct 426

<210> 16739  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 16739

agcttctcaa tctaccaaag gaaaaagggg caattactag acaacttttag aattcctaga 60  
aaaagatatt aaggtctact tatatgcaag aaagtttcta agcaatccaa caaaagttat 120  
atttttaaga aagaagcaac aaatgttttt aagaaaaaaa gaattgcaac tatgaggaat 180  
gctggaaagg ttaagaccta ggctagttat ttttagtcaa ttttaattaca taaccaaaaa 240  
ttagtaatat agtaattttt caattttgtc ctttctttct aattatttta aaatattgaa 300  
tttttttttg gaaattacca aaatgcaacc aaactaggat aatcccttta taatattata 360  
attataacca tggcatgtaa atgag 385

<210> 16740  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 16740

tgctcgagct aagcgcaa atcccctaatt gattgggtga atggttcaac taagcacaca 60  
tcgctgcgct aagcccaaca ccttcactgt aagttgcacc ttaagcagtg ggcttagcgt 120  
ggatgatgcg ctaagtgcc cttccttgca aagacaatcc aagtaagtta gcatttctac 180  
ttttactttc atcctccaaa ccttaggata gttgatttat agtttttagtg actagtattg 240  
ttgtagggtta ggttacttag ttttaggggt aggtatttta ggactttagg tagtttagaa 300  
gcccattagg ggcaatgtga ttaaaaagg gtgaaaaccc ctgtgtatct ttctgagatt 360  
cgcgatgaac gcgctaagca tgctgctac acttagcttg ttcatacaca ctgttaa at 419

<210> 16741  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16741

agcttataag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taggacgcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120  
 attatgatga tggatggctc aaattctcgc aaaggtaaac tcatcacttt caaattgagc 180  
 ttctaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300  
 catgcaaatt cgtacgtgca cacaaaattg atccaaaata ttaaactgaa aatccgacga 360  
 aactaacaac attaacaaat taacacaact aacaa 395

<210> 16742  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16742

nttcgcanag cttacggtaa aatctgggac ctagttttgg tagaagtctc tacagaggcc 60  
 attgcctccc tcgtccagta ttatgatcag tcgttgaggt gcttcacctt tggggacttc 120  
 cagctatcag ccatggtgga agaattctgaa gagatcctag gatgccttct agggggaaga 180  
 agaccatacc tcttctcaag gttctatccc tcattagcta gaatttctaa gatagtccaa 240  
 atctcagcgc aggaattaga ccacagaaag caaattgaaa atggngtggt tggaataccg 300  
 agaaaatggt tggaggcaaa agtgagaatc ttggcaggta aaggcgaata ggccccgttc 360  
 atagacattc tcgcactggt gatcttcgga ggagtcctct ttccgaatgt gga 413

<210> 16743  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16743

tgtttctctc taccatcgag tctggagccc catgacttta ttggctagca ctgatcgtgt 60

atactccacc ctcaaagtgt atccagaggg ccatgaatcg attatgattc ctgcaccctc 120  
caccattgac tcttgatccg gacaaattga ctgcctagca ctggtggcct attgtccgcc 180  
ctcaagtctt aatcggagcc tcgtgaacag aatgccatna anggatgctn caccataaag 240  
tatgtagccc cacgaattga tggactatgg cttttcgtct atcctgcacc ctccaatctt 300  
acccac 306

<210> 16744  
<211> 478  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16744

agcncncccg cgcgnaattg atgcctcgat acagacggcc ctatgaaact cagcttgagg 60  
aagagggctc aagaacactg aaaatttttt ttggagcgga aatgttgtct cctttcctct 120  
tgaccagctt gcgaaaatgg aggaagaatg agctactttg gtgagttttg gagtttaaat 180  
ggacttgtag aagaagctta gagcatgac cattggtaaa tcttatccta atcttctaga 240  
ttagcgtgct aacttctatt gggatatgag tactcagagt gaaccttgta cattgcgact 300  
caatgcacag ngcaattctt gcacatatgg aaatctagct caaataattt ctgtatctct 360  
gtcaagcttt actaaaccaa tcacatacac acacacacac acacacacac acacacacac 420  
acacacacat aacatgataa tcaataatta aaagcatatt aattgctgca gctacacn 478

<210> 16745  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 16745

ttgcttataa tatatcgata cgctcaaaat taaacatcga aaactctcga gaaattcaaa 60  
tggccgcaac ttttcacacg gatgtccgat tcggtcgcat aatatgctga gaggctcgaa 120  
attgaacaac ggaagctctt gagaaattta gacggacata actcctcaca cggatcgacg 180  
accacgcaa accacatgaa tagacgtca caatcgta tccgctgctc ctgagaaatt 240  
caaacgatca taacatctaa catggatggc caatcaaggc tcgtcacata ttgagacact 300

ggaacttgta ctgcgtgagc tgtggtgcaa ttctagaggc catatctggt tacaccgcga 360  
gccgactaag acttatcata t 381

<210> 16746  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16746

gaaactcagc tgaatcggac atccgtgtga aaagtatgac cttttaattt ctcaagagct 60  
tccgttggtg aatttcgagc ctctcgacat attatgcgcc cgaatcggac atacgtgtga 120  
aaattcatga tcatttgaat ttctcgagag cttccgatgt ttaatttcga gcgtatcgat 180  
atattacaac cctgaatcgg acctcagtgt gacaagttat gaccatttga atttgacgag 240  
agcttccgct gctcaacnnc caacatcact ataccngacg cgcccaaadc ggacattcga 300  
gtgaaatggt atgaccattt ggattttctca agagattccg ttgtttattt ttgag 355

<210> 16747  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16747

tgcttgtcaa gacaatgcac gcacccctct ttttcaggtc cttagacttt tgaatatata 60  
tcatttgcct aattagtaga atcttgggtg ctttgtaaatt tttgtgaact ctctgcttca 120  
accattttct tttttagttc atcctacgta aatacacctt ataaattatt accatacatc 180  
aatatcctca atacttcaat ttactaaac aaaactcatc tccacaatag ttactcctcc 240  
tcaccccata accttctatt agaaaattaa gcaaaacaaa gaaaaagtat tgaaattaa 300  
attaaaattc ttacaattac aatagaagcc ttttcagtaa caatgcttcc atcttttcga 360  
gttcgagtga caatataaat gtatgcccta 390

<210> 16748  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 16748



ttacatccca tgttgtgata aaatctttta tataattagt tatgttgagg ttatgaaatg 60  
atgattcaaa ctgtgagtat gtgataaatt gaacatgtga cggatgatga aatacatgtg 120  
tattgagatg agatgtgtgt attgagttgt gaactataaa ctatgcaatc acacaattgt 180  
aagacccttt aagggcgacg agtattgtga tgggatccac tgtgggaatc cgacgagtta 240  
aaatgatttt gaaaacaatt gagtaaagt gtgtatttca tagttcatag ataaagtgt 300  
tatgattcat gaggtgtgat aacatgttaa attgtgatta taccattgcg attaagatta 360  
agtgtatgtg ataaattgag tatgtatatg attgagatat atatgtacat tgaa 414

<210> 16749  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16749

agcttcaaca ttcaattttg agcgtctcga tatatgacga gactacatca tacatccgag 60  
taaaaagtta tagtcgtttg aatttgc tca gagcttcaac attcaatttc gagcatctcg 120  
ctatattacg ggactcaatc agacatccga gtaaaaagtt tgttgtttga attggctgag 180  
agcctcaaca ttcaatttcg agcgtctcga tatattaaagg gactcaatca aacatccgag 240  
naaaaagaaa tgggcgctgg aagttgc tca gagcatcgac actgaattgc gagcgtctcg 300  
atatattacg ggactcaatc agacatccga gtaaatagtt attgtcgccg gaatatgctc 360  
agaggttcaa cattcaattt cgag 384

<210> 16750  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16750

ttgaatgcac tattcaatgg agttgacatg aacattttca gactgatcaa cacttgcaca 60  
gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaacctc caaagtgaag 120  
atttccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcc a atgcctgcac tgccttggga 240

gagaggataa cagatgaaaa gctggtgaga aagatcctca gatccttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggtt ctcttcanac ctttgagcta ggactctcgg atagggctga naagaagagc 420  
aag 423

<210> 16751  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 16751

tagtttgttt gaaggacaga ttctcattat acaaagcttg caggaactag ttcagcaaag 60  
gccagttatg agtgtagatc agttcattga caatgtggcc tggcctggag cctgaccttc 120  
ttttgtggga gataatgaaa gttttacage ccagtcacct caacaacatg agccagaacc 180  
agaaacgatc actcatttga agccaccatc cctcgagctg ttgatttcgc aaaaagaaga 240  
ttagagacga gatctaataa ggctgctcat cctagaccag tgccagcatc agctgaggca 300  
ccatttccag gagtggatcc atcttcacct tagcatgcat cagactcttc cactcctatc 360  
ttagagatac atg 373

<210> 16752  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16752

tctatggagg ttggatcttt gagcttcaat ggtgattttc caccatggag atgcagcgga 60  
aggcaaagga gaagaggaga ggggagacac catccacaag ggaataagcc atggaagaag 120  
gagcttcacc accaagaatg tgccttggat aagaagcttg aagatgatgc tttaatggag 180  
gaaaagaaaag aggggaagggg ggagcacgaa attgaaggaa taaaagaggg agagaagtgg 240  
aactttgaag tgtgtctcat aagactttaa tgcacaaaag ntacaacaag gggtacacat 300  
gcttctatct atagactagg tagcttcctt gagaagcttt cttgagaaaa cttccttgag 360  
aaacttcttt gagaaaactt ccttgagaag ctagagctta gctacacaca ccactc 416

<210> 16753  
 <211> 95  
 <212> DNA  
 <213> Glycine max

<400> 16753

agcttcaggt tgctcattga ctccaaatth ttgcaaagaa ggacaaagat ctgtatgctg 60  
 atctgcagaa gaacatagat gacagactct tgcaa 95

<210> 16754  
 <211> 98  
 <212> DNA  
 <213> Glycine max

<400> 16754

tgacacatct tectctgttt ccttcccat ggtagttcta tcatcccgag tgatctcttt 60  
 ccattttcta aaatccaaac cctttttcct cctccttt 98

<210> 16755  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16755

atctttacag cacatttttag taatgaccca ctaacctaga attaaaataa ctcaatgcc 60  
 ttaacctacg gaattaaaaa aaacataatg gctgagtgtg actgaaattg tggcaaccaa 120  
 aattcacccc caacagccaa catgtcagcc accatttggg ctcccaaaag gctgatgcct 180  
 acgatgccaa ttggggccctt attacaactt gaactaaacc taactaacgc ccttttagtt 240  
 gattaaccca aaacatattt ttggtcaggg aactttacaa ggatcggggc attatttaga 300  
 caaactaaac actcttaaat tgaaacatag tgggtgcatt tagtcctcct ccattggggc 360  
 catgatataa ctcacaagct tggacttttc 390

<210> 16756  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 16756

tggtgatgag cttcattgta agagacaaaa ttggttctga ataatagctg tcattctgtg 60  
aagctagtgg aatttggcgt taaccaagaa ctggatgtaa tcccaatgat agaaatgaat 120  
cagtataaat ctttgagtct gatgtttatt ctatttatct catgctttag acttacttat 180  
gttttgaatt tgattttggc tggaaaacat attctattct gcacaataga tttctatgga 240  
ctgaacttgt tgtgaaaatt aggtgagagc tttgaaaact tatacttcaa acggtgactt 300  
tgtttctccc aaaataaggt tttaaaattt ataaaatcac aatccactcc tctgcttatg 360  
atatatgact ttatagattg gtat 384

<210> 16757  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 16757  
atgcttcttt ccaccaaggc gttagttaag actcatttaa ttttaactcct cacaatttac 60  
agtaccctct tcctcccaat taagtctcac atttcattaa ttgcgctagt aactggcgtc 120  
agttaagttt accccccag agataaaatg ataaagaagc tatagagaga tatataggtg 180  
gatactagaa acttgagcta actatgctga tatatatatg gcaattatag tactagaact 240  
actatctttg gttttatttc taacctcatt tgttcgaatc accaataacg agaggctctt 300  
ataccttgtc acaggtgcaa aggtatgttc accacgatgt gattcgatta catgatctgg 360  
aagactcatt ga 372

<210> 16758  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 16758  
taaaggaaca ttcaaactcg gtgtatttac ccgtatgtct agactccaaa gagttcatca 60  
gggtctctcc ttctgattt aggtccaatc ccgaaaatat tttagcacac agactatcta 120  
taaactgtac aaaacacatg actccttaat tgttgtaaaa ataattttta cttgtcgcat 180  
ctcaaagtga ttaaactcgt caggttccca cagtggatca catcacaata cttgtcgcg 240  
attaaccctg tgaccttaaa gagtcttaca gttgtgtgat tatacgggtc atagctcaca 300

actcaatgca caataatatg tcaatacaca tgtatctcac aattcatgac atattcaatt 360  
tattcattac acacaatctc aatcacaaatg tcatgatcca tcccaatata ac 412

<210> 16759  
<211> 224  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16759

caatgactaa caccatattg tcttacaac gaataagcaa attatatgca tagtctcttt 60  
tctcaagatg aataaagtgt tgtgagagct tttctaaact ttacaagaat atacacatga 120  
gagattttac acagaatgat ataatgagtg cttcanatca tgctacatat cttcaaagct 180  
tctgggatat atagggcctt nttaatcaag taattggtat atct 224

<210> 16760  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16760

ttgaagtacc aatcaaagcc cttaccatca gaatcttgac aggttcaaca taattggctt 60  
gaacttggaaggattagta tccacttgca taggcttttc ttcaaacttc aacatttctt 120  
catcaatagt cttttgtatc atatctctga aaggtaaaca actataagtc caatgtccat 180  
agacatattt aaatttgcaa tatctatttc cttttctttg ctcaaagtgt gtaattttat 240  
gatcatcact aagtgcatt tgtttatcct ttaattatac atcaaaaatt ttatcagact 300  
tagtaacgtc aaaactatat tttgagttta caaattcttt ttcttctggt ttaacaatt 360  
gacaaatata aggaggacca tattgtaatt ttgctaaata aacttcattc tcctaattat 420

<210> 16761  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16761

tgtctttttg ctagacctcg atcggtcacc tttccaggcc gaggtcgacc gtcattnntt 60

tcgatccatt tcggtgaatg atatTTTTTT gccgagatgg gctaattgtt tcctggccga 120  
ataaatggga aaatgccagt ttccgccgaa acgaaaagtc ggatgggctc gcacaaaaaa 180  
acctagccga cctacattat aaatTTTTTT tgcaacacca aaacaagaaa acttcctgtg 240  
ccgtataaaa ataaaaaaca ttacatgaca gcgagcgctt tgaaaaaaca aatt 294

<210> 16762  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 16762

tcaccggatg acgccgatcg aacatttcct aacctacgtt atgcaaattt cgttcaggga 60  
ttgaattgaa aactcgtag ggcacatctg tcgtgaagta ggcaccgata tttttcagcc 120  
gacattgcac aattctTTTT agaaaagctc gctggtcgat aatggctctt ttacggcaga 180  
gtaagttttc ttgttttggg gttgcataaa aaagttacaa tgtacttcgg ctaggttttt 240  
cgtgcgagtt caaccgacat tttgtttcgg ccaggaaaac attagcccac ctctgcaaaa 300  
aaaatatattg ctaaccgtct tcatgcata ttcattcaac gattgaatag aaaactcaat 360  
agccgacaac ggtcgtgaaa tagtcccgac tgatatTTTT cagccggcat tgcgcatttc 420  
tt 422

<210> 16763  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16763

agcttgcttg tggggcttct atggaggctg gatcttagag cttcaatgag gtcctttaat 60  
ggtagattttc caccatggag atgcagcggg agacaaagga gaagaggaga gaggaggcgc 120  
catccactag ggaataagcc atggaagaag gagattcacc accaagatga gccttgagata 180  
agaagcttgg aaggatgctt caatggagga aaagaaagag ggagcgaaaag agagaggggg 240  
gagcacgaaa ttgaaggaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag 300  
actctcattc atcatagtta caactagtgt tacgcatgat tctatttata gactangtag 360  
cttccttgag aagcttcctt gagaaaac 388

<210> 16764  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16764

tgagtgagcc accatagact gagacaattt tgtatacaca tccttgtaac catactatca 60  
 ctttgtatag tggaagaatc tccatattgg aaaattataa tcgtgtgctc ccattactac 120  
 ctttaattac taagtgccta tcttaacttc acgaagcggg aaagtccgag ttttcccaac 180  
 agtggatatca gagccagatg gttcgacttg gtgaccggct cagacgagta aaatggcggc 240  
 gatggatctc agccttgggg atcccttgta tcgaaagtct tccaagcagt gagtccaggc 300  
 agcgtgtccc gcagatggag cggcgggtgca agtaccgcag gtagctagag catgaaggct 360  
 ctaatggtta tactcgtgga tgatgac 387

<210> 16765  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16765

ggctcttgctt tcttgaggaa gttcatgatg aagttgttaa atcactagag aatcatcttg 60  
 agtcaaatac aacaaagtgt tgtaacactg ttagcttagt tggacgaaat aaacttgagc 120  
 gaattgagtg aaccctagct ctactaagtt agcaagtttc cattgtattt gaacttacta 180  
 tctaaaaaat ccttgagtga ttagaatata tattctatga aacatttatt gtttgggaaa 240  
 gctagaaatg gcttcatgac aaaaaatact tgattcttaa tctcaaagag agattaaggg 300  
 tagtgccaaa agtggcttag agaatacttc ttgtagagag aagtggaata aagaatacta 360  
 ggttataatc aaagttttga ttagtgagac ccttc 395

<210> 16766  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 16766

tggttggtta ttacttgcag gtacttacgt atggatgcaa gtggggatgg agtcacgacc 60

gactgatcgt tgcccccttct ctgcgctaaa caaacagaga acgtcgctgc aagacagccc 120  
 cgtatccctt gtattcgag ttttctttta ctatttggtt gtcttaaaaa gaaaataata 180  
 ataaataata agtcgacgcc taaattctaa cttaagtaag ttcaagttag gcaagacgct 240  
 aacccatgag aaaggagggg acatggctaa tgttcccctc aagaaaaaaa aatgcagggt 300  
 agtcgcctg ggcaagctga gctcgcccg gcgagccacc cctgcaccaa aatataagaa 360  
 tgacgaaagg gtgggacgtt ttgcattcaa aaacttcttt tcccc 406

<210> 16767  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16767  
 ttgcttggtta tgctaaagat catttaaatt ggtatcaata ttttgtcctt agaacaaagc 60  
 actcaaaaag acacacatct ccggttctct cttgtttctg tagcatctgc caaataataa 120  
 tacataaaat aaaaaattcc cctgtaactc aagctatata gtgcgatgtc ctggttggtg 180  
 tgtgcttaat gtgcatgaaa tgcaccctcg ttttattaat tttgaagact aatataattt 240  
 caaggaccat taagatgacg atttacgcgt taagaaagtg attcagtcct cacattaataa 300  
 attaatgga gacatatata atacaatagc agccatctcc gcacttcatt aatatggaat 360  
 aaaacaaagg agttaa 376

<210> 16768  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 16768  
 tggatcatagc aaaccacttt gcatgccaaa catgtgttct cagcctcttg gttacatccc 60  
 tagaagtgca aaaaccattc tctaggtttt tctttagttc atatctccga tgaacacatc 120  
 gaggaagctt cttttggtga ttctcctcca aacctgattt ggcaagggct ttatcaatta 180  
 ttcccagttt ctgcctcttt cttctgcacc cttttcttgc aatttggtta tcaaacacaa 240  
 ttgtccttct tctcttggtc ttttgagacc tataatcatt gcttactcta ttttctatga 300  
 tagattgaag actatggagt tcgagagcac gggattcagc atatttctgc aaattgattt 360



tccaaggtgg tgggtggtggt gatatgtactg aaacttg

397

<210> 16769  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16769

tttcttgaaa gaaatctcaa gaaccgntgg ttgcttgggg actggatgta ggcacggggtt 60  
attgccaaac cagtataaat cttgtgtttg tcttcttctt ccctacactc tttaaattat 120  
gttgtgtact tttaatggcc gcttttactt ttgggttaagt ttttgtttct gttcttcact 180  
ttcttaactt agtagtaaaa gcctagttag atctagtaac attaagaagg ataaattttt 240  
aattagtcaa gacacattaa taattaattc aaccctctt cttaattatt ccgaggccac 300  
ttgatccaac aaccatgagt cctacaattc ttaaaggagc aaggtaagct aaacaaaagg 360  
catgccacat ggggtggaatt tcttga 386

<210> 16770  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 16770

tatactgtag ctgtcaaaaa ccctctagta ttcttttaca acctattgta atcaattaca 60  
ggggcgtggt ctatgacaat tgattacagg ggggtgtaat tgattaccag accctaaaac 120  
atggattttc aagtaaaata agcattaaaa ctaactatct tacacccaca aaagtacaca 180  
ttcaatataa gtaagcaaaa tatataataa taaaaaaca tcatacaaaag caatcaacaa 240  
tcatacataac tttcaaacac aatcatcaaa gacaatcaaa actcaataaa aaacaatcat 300  
caaaagcaat caataatcat cataactatc aaacacaatc atcaaagaca atcaaaactc 360  
aagcaaaaac gaataataaa aactcaatca aaaacaatca tcacaaagca atcaataat 419

<210> 16771  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16771

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agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60
atcacgatca tcgtctccct ttccatcatt gggggtacca cctgggcccgc cagatccctc 120
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
catcctatcc ggaaccatat caaaattgta ctaatactgc ctaacaaagg caaccattan 240
gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa tagctacccc 300
agtaagactc tcttggaagg aatgtatcag caattcctca tcttttgctg attcccccat 360
cttctgacaa tacatcttta 380
```

<210> 16772  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16772

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taggaacccc aacgttntag cttcaatgca tgatttcata ctcatgacta ggaacccaaa 60
atttggtttt aaaattagaa aagcatgaaa atagggactt gcttgtaaga attcgggctg 120
ccccatgatt ggtgctttgc acctaagtaa catgggaaat gcttttcaat ggtatgtaga 180
tatatgtata aatataaggg ccataaaatt cctcgccaag tatgaataat tgttttctta 240
aatgaatgta tgatagtgtg gaatgctttt ttgaatgcaa atatgtgcag gatgtaatta 300
gctttccaat atgcatataa ataaatatga gtgaaacagt aaaaatttgt atgggtgtact 360
tcaaatgtat gtaagtagtt tgtgatagca aatgtttagg atataaa 407
```

<210> 16773  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16773

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tttgcathtt tgcatttggg attgcgaaag cccactcca tcattatgat tagtacctga 60
catctcaaac aaacaaatca aacgtaacaa gacaattata gttgttgttt gaataacctca 120
cccactcaag tgtatcacac aattatgggt tttctctaata gaaacactct tgccttttac 180
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cactctaatt ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca 240  
 attcaccaat atgtgtaagg taaggctaga gagacaagga aaagggttaac caagaaaagg 300  
 ctaacaatgt ttttaggcac aaatgaagga aataaaattc agaatttacg aattcaagta 360  
 acaatccttc atgcaaccaa tatattacct t 391

<210> 16774  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16774

tagcgctacc gcantntcat gcatcacatt gttaacatta catacttgat cnggncgncg 60  
 acntcccccc cccccccagc aagaggcatt gatgctgacg atagccacgc gagcgacaca 120  
 atacacacnc aagccgacag cacatagtag taacagaccc acggattata cactccaaga 180  
 aactcaacgc catgaaccta aggagagaaa acacacacaa tggctgattg taactgaaac 240  
 tggcgcaacc aaaagttacc cccaacagcc aacaagtcag ccaccaaaca gggcacccaa 300  
 caagctgacg cctaaggtgc caattaggcc cacaaaacaa cctgaacaac agccctacac 360  
 aaggaaaaac ccaaaaaaga atctcagcct accaacttta caaagaccgg accattacag 420  
 acacaaacta cacaccccg aaccgaataa agagcggcca tgcaacgctc cggcattgtag 480  
 gaaacgagac aaccacaaac cttagactta cctacgagaa acaacggccg gaaggcaaac 540  
 acaccaacaa caccg 555

<210> 16775  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16775

ttgcttggtt acctccttct tgactacatc aagaattacc ggggttgagtc ttctctgtgg 60  
 ctgtcttact ggtttagccc catcctctaa atttatttga tgcatacatg tggatgggct 120  
 aataccagga atgtccgcca ggggccagcc tataaccttc ttatgcttct tgagaactga 180  
 taacagcttc tcctcttgct cattagcaag ggaggaagat ataattactg gaaaactatt 240

gctatcatcc aagtaagcat attttaaatt tgatggtaga ggctncaatt ctgggtgtggg 300  
cgattagata atggtagaaa gagatgggtt ctcagcctgt acctcataca gaaagtcaga 360  
ggtatgtgta cttcctga 378

<210> 16776  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 16776

tcatcatcta ctcaagaagg aagtgatatg gaggactcaa ttgaaataga cgaagatgat 60  
gacccatagt tatttgtaaa aagattcaac aaattcttga gagtaagagg aaatcataga 120  
agatcaaatt ttaaatcaaa gaaaaggaca gaagattcat cctctactcc aaaatgttat 180  
caatgcaatc aacctggaca tctgagggtt gattatccaa tgttcaagac aagaatagag 240  
aaatctgaaa agaaagtttt taatgaaaag aaggcaaaga aggcctacat tacatgggat 300  
gacaatgata tgaactcata tgaagattca gaaaatgaag tagtaaacct gagtctaagt 360  
gccaaagagt atgaaagcga tgaagaggta acatcttcca ataacaact 409

<210> 16777  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16777

tgcttacttg gattgttgaa aataagtgca aaaaggaagg agagggtgcag gcagtgtcaa 60  
ttggaagcaa ggtgcagagt gaatgcaagg aatggggaag aaaaatgctt aaaggagaga 120  
aatggtaact acctaggca gttacgcctc ttacctttt ggaggtttcg atccattcgc 180  
ttagcacata gacttgataa gcgagcctaa gtgatgtttg agttttgaaa agctcatgtg 240  
cttagcgact gtactcactc agcccaattc aagaaatttg aaattccaga gaaacttttg 300  
ggcttagcgc anagatacat gctgagcgag ttctacagat ataaagtgtc ttgcaactcg 360  
tgcttagcgg gcatt 375

<210> 16778  
<211> 409

<212> DNA  
<213> Glycine max

<400> 16778

taaagtatgt ccgagtcatt tatttctatg agatgttggt gaagtattgg cgatcagaat 60  
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120  
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
acatcactgc ttcgtctact gccaaacata tttaggattg ttgatgtcct tgttacttcc 240  
agtttcacct tgacaaagat gtcatggacc atgttgaaaa tctaaattga ttcaacccca 300  
tattctgcgt aaaaattcgc aatacttcaa ctgtacatca ttcacataca tccatgcttt 360  
taattgggtg cattgctcat tgcattcttt ccttgaaaaa taaaataaa 409

<210> 16779  
<211> 326  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16779

atgctntgat gcaaattcaa atgacaataa cttttgagtc ggatgttcga ttgtgtctcg 60  
taggatatcg agacgatcaa acgacaataa cttttaattc gaatgtctga ttgagccctt 120  
taatataatcg agacgctcga aattgaaaac agaagctcta tgaaaagtca aatggacaaa 180  
actttcaatt cggatatctg attgagtcct gtaatatatc gagacgctcg taattgaaaa 240  
ctgaagcttt gaggaattc aaacgacaat aacttttgaa tctgatgtgc gattgtgtcc 300  
catacgatat cgagatgctc gttatt 326

<210> 16780  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 16780

tcaacatcag accacttcca ggggtgctgga actacttcac atggacttga tggggcctat 60  
gcaagttgaa agccttgag gaaagaggta tgcctatggt gttgtggatg atttctccag 120  
atttacctgg gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaggattg tgtcatcaag agaatacagga gtgaccatgg 240  
cagagaatth gaaaacagca ggttcactga attctgcaca tctgaaggca tcaatcatga 300  
gttctctgca gccattacac cacaacagaa tggcatagtt gaaaggaaaa acaggactct 360  
gcaagaggct gctagggta tgcttcatgc caaagaactt ccctataatc tctgggctg 419

<210> 16781  
<211> 395  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16781

tttcttgtct ttttcagggt atacgaaaga aggcccagga aattcaaaaa tttaatgact 60  
gccctcacgt actgtctcgt ggggggtatg aactgcttga caagaaactt atggaggaga 120  
agagcaagcg tggacatgag gaacattcgt gtactgaaag cccaacactc aacgtcgacc 180  
caccatccct agttgcaaga cacttgaagt ggaagatcgc ccgcactaag cggcatggcc 240  
aaatgacgtc tgaagtggca caagaaattg cagacaaaat tgtcagttca tatatttttt 300  
tggttactat cattggcaaa taatgggttag ctaacctagt caaatttggt ttattcanat 360  
tcaacaattg tatatgcatg caggattcat tacag 395

<210> 16782  
<211> 418  
<212> DNA  
<213> Glycine max  
<400> 16782

tgcacatgt gatataaga gcattctcat ctatgtgatg ttcttttgct tcctctatct 60  
ttttgttcgg tgaattctct ttaattcctt gttcttcac ttatcctcca tgtatattct 120  
ccattgtctt gtgggttggt gctgtttaga gtagattcca aaaaaaaaaa ataaaccgat 180  
taaattcttag atctatactt gttcttgcac ttctatgggt caaattttgt agatctactc 240  
ttgaatcatg tttttgtgtt gatttcagggt tctatcattt ttcattcata atattcttgt 300  
gctgaacctt agatctaaat tttcttccaa aatattgatt agaaaaaaaa acacaaaaat 360  
ctaagtgtaa atcacttaat ccatgttgct ttagagtcac gtttagtcac agtaattg 418

<210> 16783  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16783

atcttcgtgg ggatggtgaa tcttcttcag atggtggatg gtacaatggt ggagaggagg 60  
 gtatttttagg tattttcaaaa tgtctaaaaa attgagggat gtcaggggtt aaaaaaaagg 120  
 tgtaaatagt catccctttt tcgcttttct tttcctttcc accttttagt ttatttttat 180  
 tottaagttt caatagtcta aatcaaacgg acagatgcta accatggcac ataggagatt 240  
 cctcatgacc atttttagaac tcgtcactgt tgatgatcaa agaagaaaaa agaagaactc 300  
 gttatcgttg cttgcagatg ttggcttaca gttagtcagg attacttggt aggttagccg 360  
 acaggtttga atctttgaag ttggaagttt g 391

<210> 16784  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16784

tgtaattntt ctcttaagag caatcatagt agactctttc actctaaaca tcttattaat 60  
 atttttttct atttctcttt ctaaaacata tcatacattt attcttatca ttagtccatt 120  
 accattctca cttctgtctc tttctctcac taattttcat ctaaactcta aagtttaagt 180  
 gaagatgtcc agtgtccact aatcattttt aaattatcaa taaaaaatgc tagcaattac 240  
 atttcctagg tggagagttg ttctccatta ttcaataaga agttagtgt agatgtacat 300  
 ttttccatgg actcgaaaac tacaatacgg attacgtgcc ttccgctgaa acgttctggg 360  
 tgtaaacaaa tgtcaagttc cgttgtaaac aatgtcaag ttcattaatg gttgggttaa 420  
 g 421

<210> 16785  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16785

atgcgcgtat agaatggagt tccatgagaa ggaggtctta aggggcattt catcgaacag 60  
 gcgatgggcg tcggaggagg agccggtttt gacgtagagg ttgaggaggt tgtttgtgag 120  
 gaagccgccg cggtagcaaa ggccgtgttt gatgattcga gcgtgaatgc atcttccgat 180  
 gaatgggtct cgtgatttga ttgcagattg gagaaggtac acgcatgcat cggaatggga 240  
 gggacggttt gnggttggtg ttagcatcaa cacaagcacg gcgcagtgtc tgttcactct 300  
 gttgtaatct cgtactcgta gttaacagaa ttgcataact aanacgtttc gcttctattc 360  
 ttagcccggt accgaggaga ggctggatcg aca 393

<210> 16786  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16786

ggcatgatca aactagcggc atgaatccct tttttacaaa tctctctttt atttaccctt 60  
 aaacttaaat taaatctaaa atgaccgatg caggattgat taaggagaaa aagtattctc 120  
 aaaccttgac cctaggtcga taattaaaat aagaagtatt aggcagttaa ttggtagttg 180  
 agagttctta attaaaatag aaattatgag aaaaatggta catgtgaaat cataattcaa 240  
 gaaactttta ttcatacata tctcttcttt aatcaagttt ctagcattgt tgtcggggga 300  
 ctggtagtga agttctcgga taatttaatt tgtgtaaag aaataaaaag ttgttcatat 360  
 ttattttttt attctatnnt attttttatt ctatttttat tagtttaaatt tctgaatttt 420

<210> 16787  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <400> 16787

tgcttagttt gttatctgat tgaaagccaa acaaagattg gagctgggga aggtttcctc 60  
 tttgagaaaa aacgagtttc aaagtatgat cttgctaatt gccttggaca atgacatata 120  
 aacttagctt tttatgagat ggctacttta tttcatgtgc ttgtcggcta ttctacaatt 180  
 aataatatat agtggggcgg tattttgtaa gacatatata tactatatca agtaaaacttt 240



gtacgtaaca tgaccacttc cgatattata tagattaggt aatttgatga gatgtatgat 300  
aagaggaata aatatat 317

<210> 16788  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 16788

tgtattcata gaacatttga tattagtatt ttgttattaa aaaatatttt tggcccctaa 60  
ttatttccga taaaactatc aattctgcaa caaatgggt catgtttgta atgcaagaaa 120  
agtgatggat aagatagaag aaaccgtgaa tatttttggc attggaatag acattccacc 180  
catttcatct agataaagac aacgtggtct atcataacta gttcccgta agaaaaaag 240  
cacagcgcca aaaacgcca taaatccatg acatgggatt ctatttcaca acccagcttg 300  
gtagaggggtg tttcttctc caccctataa aaataaaaga gcgtcccttg tatattccca 360  
aaaaaactaa tgtaaaatgt aatttacatc taggattact ctttacgaaa tataatagga 420  
tg 422

<210> 16789  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 16789

tatccggaag cataaaatgc atagcctggg gtgcctaata agtgagctaa ctcacattaa 60  
ttgcgatgag ctactgccc tatttgcaat aaacaaacct cgcaagacag ctgcatttat 120  
gaatcgtgca acgcgaaccc cttgcaggcg cccggaccgt gcaaacaatt ctcatgggtg 180  
acagcgtatc atcgaacata ctgccatcat acgctgatta tcacatatat acgacgtaga 240  
accatgcgta taaaggcacc gataacggcc tagataatta acgccg 286

<210> 16790  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16790

ttgcttgnag aatggccaga catgatacat gtcagggttt ggtttggttc aagggtaaaa 60  
 gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120  
 caaaactggt catgcatgca cctatgcgga cactcaagtg tcaaattttt atggtcatgt 180  
 gatgctaggg ctacagattc atttcctcta ttttagtcaa cccaatgttt gcaaaatatg 240  
 ttctttttatc catttgtgca ttcattccaag tccatttcgg gcgtctggga aaattttcac 300  
 agcattcacc cttcaagtgt atacacattc tttcaaaaac tagttatgat cagtgaattt 360  
 ttcttt 366

<210> 16791  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16791

tggaggcatt acctttatgg atctaaattt tagttgttta gtgatgataa gagccttaga 60  
 tatttgtttg atcaaaaaga gcttaacatg aggagagga gatggttaga gttccttaag 120  
 gattacgatt ttgagcttag ctatcaccca ggtaaagcca atgtagtagt tgatgcctta 180  
 agtagaaaat cccttcaa atgtctgtttg atgggttagag agttggatct cttacagcag 240  
 tttagagaca tgagtttggc atgtgagatt acctctagta gcattaactt gggatatgtg 300  
 agagtcacca gcgaactctt gagcgagatc cgtgagggtc agaagtctga cccattcttg 360  
 tcagctcagt tagagtccat agttgcaggg agaaagagta gtcttagagt gg 412

<210> 16792  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 16792

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 tgggtcatatc ggatcaacaa tccgatggg ttttttttat taaattta at tgggtttttt 120  
 taattttttt ttaaattata aaaatatgtt taaatattgg ctggtaattt tttttaaaaa 180  
 aaaataatta ttgctaatac catacggatc agtggtttat acggattgtg aatccgatg 240  
 aaccatatgg atcactaatc cgtatgggtt tttttttgtt tttttaattt aaaaaaatgc 300

ttaagttgat atttaaaact gtatttgctt ttgtgccata cggatcattg atccgtatga 360  
 tttttttata atattcttta tgaaccatac ggatc 395

<210> 16793  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 16793

tgagggagtg gtgacttccc gttcccagtg ttggtgctta cttgcctgcc ctactttgac 60  
 atgtacaaat gattgtttga ggcattggat gtcattctac ccttgaccct ttttagtggtg 120  
 ctctactgga gcactagaat gcggcccctt cccagctcct cccaaatagt tgggcgatgg 180  
 taagggcggtt taaaattttg tgtcctttct tcaacatcag gcctagcgtg tcaatcttat 240  
 tcttttttca aacgaagttt cctggaaaga ctagatgagt ctccctgaac agcatgttca 300  
 agaagctggtt tgagtttgat tcaaacattg ttcgctggtt taaggaccac tttattaagg 360  
 tcctagctac tagattcatg gctaattggca tgccactgat gcttaacagg gat 413

<210> 16794  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16794

ttcttgaagg taaactanat gccttggtta acctggtaac ccatctggcc tcgaatcaaa 60  
 aatctacacc tggcgccaga ctctgaggtt tatgctcttc tgccgaccac cacacaaacc 120  
 tttgccttct tatgcgacaa tctaaagcaa ttgaatagcc tgaagcttat gctgcaaaca 180  
 tctacaatag accttggcat accctaattt cgctccgggga ttataatttg atgatataca 240  
 accattgatt gaccgcttcg agatgactgg caaccctttg atgcacaata tgtgaagtcc 300  
 cgagacgtgt ccaaaatcaa aaaggaagca tgcttaccgg atccgtgaaa attccgtgat 360  
 gtga 364

<210> 16795  
 <211> 423  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16795

gacactacac aacactcaag cttcagacca tagcaactca gaatctacgt attctttatc 60  
cctcatttta atggactttc acggtttgag aagtgaaaat gacaatgggc gtgaattata 120  
gcgaactctc acctcacaca agtctatacc atcagttaac ttgctcaaac tggattaacg 180  
cctaaaattc tgccgaatca aaatttgact cttcaacacc caattttacc ctaaaaatgg 240  
ctcttgccct cactttgggc attcgtttat ctctcttaca cagcccaaac tttctcataa 300  
gatctaaatg acatttgag ctaagatgaa ctccctttaa cctccaaata ccactaaagt 360  
cagatttggc ctttcaactc tcaaagcctc actctnttat cactcataac accatattct 420  
cac 423

<210> 16796

<211> 386

<212> DNA

<213> Glycine max

<400> 16796

atcttaacgg agtcttaact atctaactta taaaggcatt ggtaaataac ttgatatgta 60  
aagaagtttt ctaaaacaac aatctattat gaaaaccaa aagcgaaaat tagtaccttc 120  
aacttttgac tggtgtcgta gaattgcctt tgctcttcg gttcatcaat tattacattt 180  
tttatctgtg atgttttggt ccaatcctgt ccaacctcct tctggtattt tttgcataat 240  
tcaggacaac caacaatttc taatgtttca agatttgatg ggtgatgcat gttttgagga 300  
agtaaaagca gctttggaca accttgaatt ggaagtgtgt tgagacaaat cagagttgac 360  
agccattcag gaatctcctc aagatt 386

<210> 16797

<211> 417

<212> DNA

<213> Glycine max

<400> 16797

tgcatgattt acatctccct ctttctcaat ctaattcttc ttgatatcat caaatcttc 60  
atgatttaca ttctccccct ttttgatgat gacaaccacc tgtaggttag gagcaacaac 120

aaagaaaata tctatttgc tatagtttac tcccccttgg ttttacaatg attgcttata 180  
 tgagacaatt gaagatttca tatttttcat atataaaaag ttgtctcata aaacaataga 240  
 taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac atcaaaaaca 300  
 aatcatgaat agaaaggaga aagatgttac cacttggtgc aatgtatgag aataagataa 360  
 ggcattaaaa caatcattca atattaatca agcaaaaaca agtacaataa cacatca 417

<210> 16798  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16798  
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 tcgcttagca aactgatctc gcgttttagca cgcggccttg atccttgtgc tcttctagat 180  
 tcccttatca cgctaagcac gctgaagctg cgcttagtag tggatgcgca ctgagcccaa 240  
 atgggtgagtt gagcgcaact gctcccttta gcacttcaag attttagcct cttttgacct 300  
 gaaattgtgt aaattttatc attaaatcac ttgggagata ctctagagac aactataaca 360  
 ataaaacaag atttattta 379

<210> 16799  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16799

tgtctcagcg tttatgcgag acggtgacca acatgctagc tatcatcgcc aagtaccaag 60  
 aagagttagg tctagccgcg gccacgagc ataggattgc ggacgaatat gcccagtat 120  
 acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180  
 ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240  
 aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300  
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360

tggtctctaa gaccttgact aaatacgact tcctttntga aataaaat 408

<210> 16800  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 16800

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ttcgatccat ttccgtgaat aatatttttt tgccgagatg ggctaataatg ttctgtccg 120  
aataaatggg aaaatgccag attcgggtcga aacgaaaagt cggttgagct cacacaaaaa 180  
aacctatccg acctacatta taaatttttt atgcatcacc aaaacaagaa aacttcctgt 240  
gccgtaaaaa aaaaaaaga attcataaga cagagcgcgt t 281

<210> 16801  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16801

tcaccggatg acgccgatcg aacatttctt aatcgtcgtc atgcaaattt cgttcagggg 60  
ttgaattgaa aactcggttag gcgacatctg tcgtgaagta gcgaccgata tttttcagcc 120  
gacattgcac aattcttttt agaatagctc gctgggtcgat aatgggtcttt ttacggcaga 180  
gtaagttttc ttgttttggg gttgcataaa aaagttacaa tgtacttcgg ctaggttttt 240  
cgtgcgagtt caaccgacat ttgttttcgg ccaggataac attagcccac ctctgcaaaa 300  
aaaaaatatt tgctaaccgt cttcatgcat atttcattca acgattgaat agaanactca 360  
atagccgaca acgggtcgtga aatagccccg actggtat 398

<210> 16802  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16802

atgcttctat ataagctgaa cccatttata aataaacaca agttgagttt tattcagaaa 60



atggatgccg gatggctgac

380

<210> 16805  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16805

tctggtgact gggaagcacg ttattctggt gttttccatg atcgggttcct tcgccaagta 60  
tgtgtatatg tgtatatgtg tattatgttc attgttcttt gttattgttt atattttggt 120  
ttgtgcagaa gaaaaaaaga aggaatggag acgagagtcg tcatcacaga aaagggcagg 180  
acggacgaaa tcagtgtcct atctttgctt tcctcttata tccgatgaga ggtaagtaaa 240  
gaggggcaac tgtcataccc taattttgtc cgtggattat tacttgatga catgcaataa 300  
atgaagtccc gagacgtctc agaaatccta aatgaagcag gcttgtgtta tccgtgaaat 360  
tacgtaaggt ggcggaaatc gaaaagaggt gtttttgtgc aatccgtgag tatttataac 420

<210> 16806  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16806

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atgcgggtgt tgaagagacg gcatgggcat ctcttctctt cctttttgcc cctgttgccc 120  
cgattctttt ggcgttcacg tttgtggagg aaacgtaatc aaactttcct ctcttcaatc 180  
caacctcgat tctttccccc gcaaacacca gatccgcaaa gctggacggc atgtaaccca 240  
ctagcttctc atagtagaac actggcagag tgtctacat catggtgata atctctctct 300  
caaccatggg aggagctact tgtgccgcca aatccctcca ttgctgcgca tattctttaa 360  
aggtttcacc ctctttctta acatattc 388

<210> 16807  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 16807

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tggaaaatat gttgatgaga tactatattga tgtagtcctt atggaggcta gccatctctt 180  
acttgggaagg ctttggcagt atgataggga tgctgtccac aatggtgtca caaacaatt 240  
ttcatttgta cataaagggc aaaagggttac ccttaaacct ttgtctcaa gtgaggtttg 300  
tgaggatcaa ataanaatga gagtgaaaag agaacaagag agaaaagaag agaaaaataa 360  
aattgatgaa aagagagaga aacaagaaag gagagataag aaagaaaata gtggaggtaa 420  
aaaaaggagt gaaactgaaa 440

<210> 16808

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16808

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atataaattt catgatgaga agtcacctac acgtaagaaa atataaagct tgtgaaataa 120  
aagtgtcaat atgtgtagtg tatacactgg ggcgtcgaaa atttaaagaa aagaatcaac 180  
aagattgaaa ggctaataata tcctctataa caaaatcaca accacacaat ttttatgctc 240  
cttataaaga atcctaacgc ctaagggtaca cactcaacac aagaacacat caattttaca 300  
acaaattcgc atcgaaacac caattgggtcc atcaaacaca ctanatccgt gattaaaaca 360  
aaacaacaca tagttgaact tcataaaaca ttc 393

<210> 16809

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16809

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ggagacatcg atattgaagt agtcaatgaa tcttgaggca agtacaacat aaggaaattt 120

gtagtccact aactgatgac tttttaacat gatgtcttct atcaaaagta cccaattcat 180  
 cttgatacct gatttttagac catagacagt ctgcagatca tegtccatta cctaagcgtg 240  
 attacttaac ctctgantca naatgtaggt aatgaggtaa ctaggagatt cctcaagntc 300  
 cttgctgggt caagaagcat tcccctatag gtctgcatct tgttgtaccc atcagctggt 360  
 tcatcgaact tgtggactcc acccatgtcc agaccgacta cttecttcca tacttcaat 419

<210> 16810  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16810

tgcattcttt atctcatagt aaattaagca taatgaattt atgcataatt ccattgaagt 60  
 gctggtagct aagatggaaa acatggcagt ccccaaaaag attctaaaga ttcaaattgc 120  
 tcaatgtagt tcctctttga gggaccatga ggtgaacata gagaagcttg acacaactct 180  
 tagaggaagt gtccaaattt gtaccgcaca gtccttctca tctaggtaaa ttggaaaaga 240  
 taaggacctt gattaaaggt gaacatcaaa agaaaaggta aaatccacca gtaaaactta 300  
 aaccaccttc ctcaactgctc atgtttgact ntcttgaca tgactatatt gttgatacca 360  
 ttttggacta aaactaanac taagagaaaa catagagaat g 401

<210> 16811  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16811

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 tatcaggaag gtatttgatt atatgcttca ttgaccactg ataatgttaa tatttcattg 120  
 ctttgcattc agaaagtgag attgtgatgt tgaatacatt tgtagtcca atgtatttta 180  
 tccttgaga aatatatata ataaagcatg ccaaataagag catctatctt gagtaaagta 240  
 accaagaaac atactcattg caaaatttat ttgttttggg tggcatctta atgaaatttc 300  
 accaattaat gcatgttaaa aataataggt actataagtt gctaattcat tatgtccacc 360

angcttttgg ttgctaattc atttatgtgt tgttgcaaac ttactcaaaa g 411

<210> 16812  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16812

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cacatcangc aaagagaccg agccggaccg gaacttaacg cagctgattt ctgcttctta 120  
ccatctcanc atgagactca tatatgttgg ctcacctgat acacaatggc aatcaaccca 180  
tacacaaaca cgcactggga gtgagctacc acatgtcgtg ctaaaagacg gactagcgac 240  
atcacatgca aagtactata ctgatttata gcatatctca acgtagttca atacacgtca 300  
ctccaccact ttatcattta gaatggatat gtcaattatc actcacatta cacatgaatc 360  
atacactcga gtgatacata tatcactcac cgattcactt atacagtcac aggcataatga 420  
taatatatcg aactaatcta tatgcatggt acatgtcagg aaacacacta acacgttgg 479

<210> 16813  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 16813

gggacaacca tccatggagg gtagtgatac tgcctaacag aaacgtgtcg ctgggcatca 60  
gagtcacgca caaggcataa cagccgacga catctggggc aaggacgcag aacaaaacca 120  
acgggagggg caaacacgcc actacaagaa aaatgctgga ccctgcccac ctacgcggac 180  
acatggcaag aaaatccgca ccccggggca cccgcccag cccgtcccga ctctgacg 238

<210> 16814  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16814

ttgcttgac aacaaataac taaatatgtt tttggtacaa aataaagtaa ctaactaact 60

aacttccact aatatataca gttactactc cgaatgaagg tatgaacctt gattaggetc 120  
atctaatacta cctaatttaa ctaattacac aaagccatgc ccaaattcgc agcccaatta 180  
ttcaagtgtg gttttgactt ccaagcccaa ttcgacaaaa ttgaagcttt ccagggacta 240  
ctcacattga gcatttggag ttttgtagta ttctataggc cctacacaag gcagataggt 300  
caagtaagca taaaaatcca aaaataagcc acaattatca attaagctca atcatcttcc 360  
taagacgaan actaagctaa agt 383

<210> 16815  
<211> 418  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16815

ntcataccct gtgttaggaa gattcgataa attttactca gatagggaag ctgagatgat 60  
agaaggagaa gattctaaat ctgatgaaga tttaatcaag gcaaaggatg ccactaagta 120  
ggtgaagttt gatagttgca caaataaaat cattagtgat cataagcagt ttgaagcacc 180  
taatgagact gatcaagatc ttcaaattca cctcaacat cagaatttag caccagttga 240  
ggggactaat tggacaagtc aaaactatcc aaagcagccc aaaacaacaa caccctaaaag 300  
gcataaagac aaatcaaagc tcttgaaaga tatggctttg atatactgtc tcatgcacta 360  
caagtagcaa aagaaattga ttcattcgaa ccaaccactt atcagaaagt aatttctt 418

<210> 16816  
<211> 378  
<212> DNA  
<213> Glycine max  
<400> 16816

tttctttggg gctaaaaagc tatataacag caccaagggt ctagttcagc tctctctcct 60  
ctctctcttc tatttttctc tcttagcttg agtctctctt ctctttctct tttattatcg 120  
ttccttaciaa ttccatttcc gacgttgagt cttatcaata caatttcgat ctctattaga 180  
ttaatggcag gctaagtcg caacgttgat ctctctggag gatcaagcac agctctcttt 240  
gaggttctat tatcactggt acattctggt cagtttttcc tcttcactaa tcaactctgaa 300  
tttgtggcta ttaatctatg catgcttagt gcccgattaa ttgtctctgc gcataattca 360

cgtaagttca tgcttaat

378

<210> 16817  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16817

tagactctgt ttcataaaga agaggatcat ctatttgagg gaagagtcgc aagtttgaga 60  
ataggattta agaaactctc acgtgaaaga gaggagaaat ataaagaaaa tacgcgaatg 120  
ttctgaaaga ttcttctatc aagaagagaa tttcaatttc tcactttcta gaaggaaatt 180  
gaaattccac attttttagtt gtttaaaatt atgtttttaa attccaaaat ttaaattctt 240  
cataacacac catccccaca atggaattta gattatagaa agtgaaattc tctgatcaat 300  
aactgtccac aattaaaatt ctttatccaa aggtactcta aggcttactt tacaccttcc 360  
tatgtatggt gaactcacta ggcttggtta ccacactntt agaagttcaa tattcact 418

<210> 16818  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 16818

ttcttctttg ttagacctcg atcggtcacg tttccaggcc gaggtcgacc gtcatttttt 60  
tcgatccatt tcggtgaata atattttttt gccgagatgg gctaattgtt tcttggccga 120  
ataaatggga aaatgccagt ttccggccga acgaaaagtc ggttgagctc gcacaaaata 180  
acctagccga cctacatttt aaatttttta tgcaacacca aaacaagata acttctctgtg 240  
ccgtacaaaa aaaaaaaca ttacatgaca tcgagcggtt tgaaaaacaa aattgcgcaa 300  
cgtcggctgt aaatatcagt cggggctttt tcacgaccga tgcggctat tgagttttc 359

<210> 16819  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16819

agcaatgncc cttgatatat tngagggact catgttccact atgattgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaagggtg ggaccactta acttttccact aaaataagca attggatggc 180  
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaaag 240  
atttttgaaa gttnggcaac gcaagtatgg aggcattaga tagcttttgn nnaagaacat 300  
tgaaagcttc ttcttgtttc tctccccatt tgaaaccagc atttttcttg agcacttcat 360  
tgagaggtgc taccaatgtg ctaaaatcct tcacaaatcg tctataaaaaa cttgctaa 418

<210> 16820  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 16820  
gatctaccac cggcagcggg atatcagcat actatcatgg ccaagattat cagcactatg 60  
atctctagcg cgagaactcg gacatattac taggaaatgt gaacgattta gtattgcttt 120  
tatttgcaca aaatgagtga acaaatagga agtgtgcaca atgactatat ggggcgtata 180  
taattgatct aatcacgtat cctcgcttat gaaaggatga gatattacca tgaatg 236

<210> 16821  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16821

cacacatata aacgcaagct ttgagtgatc gattacacta gtgaggcaat ttatttccag 60  
ggatatgccc tgaaggaagg agaggatggt actctttaat acgttggtga ctcttgcata 120  
ttgggtggtg gaaatcccca ttaaaggacc tcctctgtgc ggacctattc gccctacatg 180  
aanagcctat aaaagcactg ctatgaaaag cttttgcata tactattcca aacaatctta 240  
ttaaatcctt aacaagcttc gagacgctgt gaactgcac ctcggattgg tgccaagaac 300  
tatacaaaaag aagctgggtt tcaaaaaca 328

<210> 16822

<211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16822

tgctttgaag gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60  
 atcacgatca tcgtctccct ttccatcatt gggggtacca cctgggccgc cagatccctc 120  
 caccttttgg gcgtgttctt tgaaagatec gtcccccttt ttgcaaagt tctgtagttg 180  
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattat 240  
 gtccttccaa gaatggactc gggaagattc caagttagtg taccaggtaa cagctacccc 300  
 agtaagactc tcttggaagg aatgtatcag caattcctca tcttttgctg attccaccat 360  
 cttctgacta tacatc 376

<210> 16823  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 16823

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 accggttcta cagcccgcaa taaacttggg ccgagacaga aacatgatgg ttttcggtcg 120  
 gaggtatagt cctcaagcct acccttatgg ttgacctcg gacttcaccc cccctaccgc 180  
 tccagacgat ttgagccaag cccctacctt tgaggggcaa ctccctcctc atgccgacta 240  
 tcctctgcaa gaagatgatg aaggagatgc ccatctaggc cctctacttc ccctcaagga 300  
 tccggccccc catgaattgc ctcaaccaa catagtccgc cacgtcccgt ctccacccgc 360  
 acccgtaac gagttatttc cctcggaac ctaccgtct ta 402

<210> 16824  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16824

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 ccttgattca ggcttgaaac atagggaagg agngganngg gatnttaagt ttttgatgta 120

tgatgttata ttttagagga gtagatattg atgtattgtg gngatatata tataaaaatt 180  
 gtatgaagat aangttataa aaaagtatat tagtaatgaa gaggagaaat agagaaaagg 240  
 agaagtggta gatagaatat atgatgagtg aagaagagaa ggaaagtaaa agaaagagag 300  
 tataatgaag gaataaaaaa tggtgaggta agatgtaata tggaaggtag aagggaggat 360  
 gaaaaaaaat agtgaagtaa gaaaaaagaa aggaggtagt tagaaaaaag gataaagagt 420  
 gaaaaatgta gaaaagatag gaag 444

<210> 16825  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16825

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 ccaaaatddd cagcacaagg taattatatt gatagatgtg gcacattaca tgtaaaatat 120  
 ctattaagca tgaaaatggg gcccaacaat agaaaatcct cctttnnncc ctcnnectca 180  
 tatgggatta ggtgatggag tggtnengag gccttaaacc atggtaaaca ggcttgaggt 240  
 ggaccatcct agataaagaa ataaacctgt gcgaaaacaa catacccatg tgaataaaac 300  
 aacctataat tg 312

<210> 16826  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 16826

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 taagaatgag aaatcccaaa gagaaaacgt ccgattgatt tttcgcttta ctttactcaa 120  
 aggtattdttt tttattatta tattattatt ttacctcttt ttttatttcc aacgtgctta 180  
 cggcacgacc gaacggtcgg aattcatttt aacaaaatt aacggatgat acaatttaaa 240  
 tgatcggtag aaatttattt tattttttaga ttaggcgaga aatgacttaa ataatggct 300  
 taagcacatc aaaagggggt ataaaaagca aatgaaaacg agaataaaaa tacatgtgtc 360



gcaacctacc cttc

374

<210> 16827  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 16827

tatcataatc gattgcactg ttgtttttta gacaatgatt gatttattca tgagtctgtg 60  
ttttaattga ttaccatgtg atatatcga ttacttctat ttctataagt atttcagaag 120  
tgatcaagaa cactttaatg gactacattg aggatctaata cgattacatt gtgcttgaga 180  
ggtttccagt ttttgggatg aacactttaa tcgattgata agataatata attaactact 240  
tcattgaaat aatcgattac attgtatatt taatcgatta taggcagtta taattgtttt 300  
ctctataaat agtcaccttg tgttctcact tctaagtaca agttcattaa gtgtgaaatt 360  
atatgagctg aaataattga aagaatagaa gaagagtgtc tagaaacagt gactcaaaa 419

<210> 16828  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 16828

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gagtaagtgg gtttgggctt agcgccagtc ttgcactgag cctggctaata gacacctgct 120  
gcgcttaaca cattgatctc gcgcttagca cgcggccttg atgctgatgc tttgccagat 180  
tctccttcgc gctaagcatg ctaaagctac gcttagcggg ggatgtgcgc ttagcccaac 240  
tgctgagctt agtccaacga ccacttttgc acttcaaaac ttagcctctt tttcacctga 300  
aaatgcacat atttcatcat taaatccaat ggaaatgttc tggagacatc ttaaccata 360  
aaagaa 366

<210> 16829  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 16829

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agtgagaaga aaagtttcta agttagaaaa gttacttcaa aggaaaaaat tatttgtttt 180  
aatcaattac agagttgtcg taatcgaata caagaagcta tctaaagctt aaagagttga 240  
gtctcgtatc gatttaatcg attacagtag tctcataatc gattacacta ttgtttgagt 300  
caatgactga tttattcaag agtctttggt ttaatcgatt accaagtgga ttaatcgatt 360  
acttctttct cgtttggtta tgaagatctt tttcttggaa gtgagttgta tcttttgagt 420  
t 421

<210> 16830  
<211> 370  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16830

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ttgggcatac cctatgaaag attcgtgctc ccttttacac aagttctgta gttgtgtcct 180  
atccggagcc atatcagaat tgtactgata ctgcctaata aaggaaacca ttaggtcttt 240  
ccaagaatgg acttggaag gctccagatt agtgtaccaa gtgacagctt ccctagtaag 300  
gctttcctgg aaaaaatgca tcaacaactt ttcattttt gtgtatgcct tcattntcct 360  
ccagtacagc 370

<210> 16831  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 16831

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tggaagaacg tcccggcatt tacgcgacga gcataatgta aacctttacg gttttaaaag 180

ctctatagtt gggcctaggc tttagagttt ttcttttgtt aaggccttgt gtcttttgtt 240  
 tttgaattta taatacaagg atctttcttc atctgtgcct acgtgtctac ccattcttat 300  
 ccatttgcac gtttacttct ttattttctga aacggcagat ccgatgacga gtcccccgaa 360  
 ggtactaata cctgggaccc gcctatcaac ttcgagcaag aaacgaatca nacggaa 417

<210> 16832  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16832

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 ctaccttaaa ctataggtgg ccaattctac atctgaagct agatgatgta tgagtgtcta 180  
 atgttgatga ttatagatgg caattaccaa ggggtgtcaat ggctgagaaa tgcttattaa 240  
 tgttgaaact tgaaagacaa ttccaccttt gatatatgaa gtgatgagtc acaagtgaac 300  
 atagatcttg tcaaattgcag cttctaggaa ctatagggtg gtttggttat atattagtcc 360  
 accaaatctt ataatgt 377

<210> 16833  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16833

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 taagccgtgc agtctcttcg catcacctac aaaatgacat ttactaagaa aattggaggc 180  
 cttcttgaag tttgtaccct agttttcccc acactctcaa gattgtctgt gtataacaat 240  
 catctatttt tgctgctcat tcaacattac attatgtgtg tattgttaca acatacagga 300  
 actccgtctt ccaaagcaag atntgacatg gagtgaatg ccatcatggc ctgtccctcc 360  
 aaaatatgta gtcccacctg agatgcacca acatgaagct gaatgctgct tgtttagac 419

# 2015

atcttatcac	caaaacacgt	attattagct	aagtgccta	caagagcggt	tatacatcaa	60
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acatctagca	tgtaaatcaa	ttagtggcag	aattattcta	atttaattat	taattgtaaa	180
tttaagtcct	ttatatatat	agttgtatta	aataattaaa	agataaattt	ttatcatctc	240
acacgtgatc	atattcaatt	taaataggat	tgtgtctagt	tgcatgtaat	atatatat	300
ttttagtgtc	tgattattct	gaaattttgc	aacaaacaca	taaaaatctt	tttttaacat	360
ataaaaacct	taattatttt	ttacaataaa	tg			392

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<223>      unsure at all n locations
<400>      16835
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atgataagca	tttgettcaa	gaataattca	agattgcttc	aacaaacaaa	gccttggttc	180
aagattcact	aaagaccaag	ccttgcctta	aaacaaagtg	ctttcaagac	atgcaaggct	240
ctggtaatcg	attaccagga	agtgtaatcg	attactagaa	gacaggggtg	agaaatagct	300
ggtgaaaaat	gttttgaatn	tgaattttca	acatgtaatc	gattaccata	tgtctgtaat	360
cga						363

<400> 16836

7063

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 agaaggtgtg agtcgcacaa acttattctt agaacttttt cttttctctt aaaagtgaga 240  
 acataaggtc attatttata gagaaaatag ttataaccgc tgtaatcgat tatatcaaag 300  
 aagtaatcga ttagattatc attttaatcg attaatgtgt tcttcccaac attggaaagc 360  
 tttcaagaac aatataattg attagattat tcatgtaatc gattgaagtg ttcttg 416

<210> 16837  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16837

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 ttaaaaaata attaaatgta gggttaaata ttcttaaaaa tatgagcttt ttttagcttt 180  
 tgtaaaaaaa attaatataa atatttataa ataaaaatga aaacaggtgc attaatcca 240  
 atttattatt atttatcatt attaaaaaaa gttagatatt ttaaaatagc tcagtgtaaa 300  
 taattctaaa aataattaat attttttaaa attntaaatg aacaaacaaa taaaagaaat 360  
 tcttaataaa tatacaaatg 380

<210> 16838  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16838

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 ttctgaatg actacactga ggattttcat actgttgacc cattttcttc tgtgcattcc 180  
 attgaaagat atctatggcc aaaggctagt gcaaaaggca cagagcatgc tagatcgta 240  
 tctgtccaag tagtgtcgca acctgaaagt ccttctcccc ttcaatcacc atcaaatgca 300

agttcagtc cagttgaaat tcccgttaatt ttaaggactt ctgacatgat gacagatctc 360  
cctgaaacac aggtgatatt tgtatccata atntattgat tgcagaacta tct 413

<210> 16839  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 16839

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attactaaga gaaagagcaa ctaagatttt gacagaaaaa atgaatgcaa aaataacaca 180  
attaaaatta aaaaataata accattaatg tcttacattt ttatgcataa acatatatat 240  
tacttttaat ttaaaaataa aaatatttta gtcatttgtg tgaaattaaa ttacttacia 300  
caaataaatt taattcaatt ttttaatagt aaaactcttt atatatatat atatatatat 360  
atatatatat atatatatat atatatatat a 391

<210> 16840  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16840

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actctgtcat catgccgaga ctcaggaagg ccaatagggt tagccttctc taagtattct 180  
gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttctggacga 240  
tatagattct ttttatcccc ttttaagatt ttcatgtatc gttcaaccag gtacatccac 300  
catagataaa caggaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360  
atgatgtcaa agaaagcagg gggaaaatac atctccgact ggcacagtat aattgc 416

<210> 16841  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16841

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tgaactattt tttgtactat ctgttaattc tctctctctc tctctctcac acacacacat 180  
atatacatct ctcagcaaac taaggctgag gatccttttt gtgtgcatat tttcatactc 240  
aaacatttct agtgtaacta cagcacaaaa ctttattcca ttgtttggtg agaggggtcc 300  
agttaaaggg aaagaaccg tacttatatc ttctgatcat tctactaata attatatctg 360  
ctgatcattc tactaataat act 383

<210> 16842  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16842

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aatcaccaa ctctctatac aggacattct agtggatgat acctaaaaaa aaattagaaa 180  
aactcagat ccaaccttgc attacaaaaa taacatgggc tctttacaca tcaaaccctc 240  
tcaagaacac aaggtttgct tctcagcat ttccctcaac ctactcaaag atattcatcc 300  
tagttgagtc aagtcatttt tataagcagt cacactcagc ttctctatg tacaattctc 360  
tgaatggagt ntaagcaaca acagtgatcc tagaattctg gcaatcc 407

<210> 16843  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16843

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tttttactcg gatgtctgat tgaggcccgat aatatatcga gacgctcgaa attgaatggt 180  
gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgactctcg 240  
tcacatatcg agacgctcga aattgaatgt tgaagctctg agcgaattca aacgacaata 300  
actttntact cggatgtctg attgaggccc gtaatatatc gagacgctcg aaattgaatg 360  
ttgaagctct gagccaattc aaac 384

<210> 16844  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 16844

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aaaagttatt gtcgtttgaa ttggctcaga gcttcaacat tcaatttcga gcgctctgat 120  
atatgacagg actcaatcag acatccgagt aaaaagttat tgctggttga attagctcag 180  
agcttcaaca ttcaatttcg agcgtctcga tatatcacgg gactatatca tacatccgag 240  
taaaaagtta ttgtcgtttg aattggctca gagcttaaac attcaactgc gagcgtctcg 300  
atatatgacg agtctcaatc agacatccga gaaaaaagtt attgtcgtat gaattggctc 360  
agaggttcca cattcaattt cgagc 385

<210> 16845  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16845

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aacaaagtat tttcgacacc tactgtacgt tgatttgacc aacgttgata tgggaatgat 120  
gcgacaatcc ttcaaaacct tattgatata ttctgagagg ttggttgatc tgtggccata 180  
ccgacgtcct tctctatcat aagccatcgt ccatttttct ttgaaatgc gatcaatcca 240  
tgttgctatg gctggactca gttcacgaaa tatttctaga ttttgatcaa aaatgtgctt 300  
gcaaggagta taggctgcat caaattagtt atgaataaga attctaagta tata 354



<210> 16846  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 16846

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 atatctatag atttggaata agactttcca aatgaactg aaaatcaaaa caacttacga 180  
 gcacaagcac aactataga gcttatacgc tcttgaaaat caaattactt ttagtctgca 240  
 aaagattaac acacagtgc tatagattaa tttcttggtt gaaatataga taattcctta 300  
 tagagtagtt caaaatcttg cttggctata gattaattca ttgagaatga attgtgtggt 360  
 tcagtaatgg aatttgtgca tcaacattta cagatcatgg ttagaacta 409

<210> 16847  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 16847

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 gattcggggc cataatatgt cgagacgctc gaaattgaac aacggaagct ctcgagaaat 180  
 tctaattggtc ataacttttc actcggagga ccgattcagg cgcataatat atcgagacgc 240  
 tcgaaattga acaacggaag ctcccgagat attcaaatgg tcataacttt taactcagag 300  
 gtccgattca ggcgcataat atatcgagac gctcgaaatt gatcatcgaa agctctctag 360  
 aaattcatat gcgcataac 379

<210> 16848  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 16848

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ttaactcgga tgtccgattg agtcccgtaa tatatcaaga cactcgaaat tgagaataaa 180  
 agctctgaac aaattccaac gacaataact ttttactcgg atgtccgatt gagtccagta 240  
 atatatctag acactcgaaa ttgagaatag aacagctgag caaattttaa cgacaatgac 300  
 ctttttactc ggatgtccga tggagccccg agcgtctcga tatattatgc gc 352

<210> 16849  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16849

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 aaaataactg aataacattg aagaacttta ttaaaaagag gaacgagagt acatggatat 180  
 agttacctca ctattcgagt tctacggngt ttaatcaacc atggtcataa aataactaaa 240  
 caacatacaa tattgcctta gaaataaaag agatcggaaa tccttataga tttggacccc 300  
 aatttttctc cgtgcaattc tcctctcaaa agctcttgta ttttgtaaaa tgtataatga 360  
 atttcaaadc catgaaatac aaact 385

<210> 16850  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16850

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 cgcccaggcg agctaactg tacttttttt taggggtgca ttaaccacgt ctcccccttc 180  
 ttatgggtta gcgttttgcc taacttgagc ctacttaagt tagaattagg tgtcgattac 240  
 ttatttataaa caaacaatag taaaagaaac tgcgaacgca aaggatactg ggctgccttg 300  
 cagcgacgtt ctctgcttgt ttagcgccgg gaaggggtgg cactaggtcg gtgcgatcc 360  
 tatecttcat togetttcat ccctaagtac ctgcaagtaa aagccaaatg atatg 415

<210> 16851  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 16851

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 atgtgtggaa gcatttaatg atctcaagat caaactagta gctgttccag tgcttatagc 180  
 atttaatgat ctcatgatag tgaggcttgt tttgaagaag acacgttgga gcatgagatg 240  
 gaattaacag cctcagccat ggtattacag tctcctttgg aagaagaatc caacaatgtg 300  
 atagaatgcc tagtcagtga aaatgaagga gaagagctag cttgtattga agagctggat 360  
 ggtccagaag ataagtctgc tggcatgtg atgtttga 398

<210> 16852  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16852

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 gaacccatgt tgtgactgtc gttcctacat ggccaaattt cccaccagct caacaatatc 180  
 aatactcagc caatatcatc ctttctcatt acccaccacc ctataagcca agaacaccca 240  
 attatccaca aaggccaccc ctaaatcagc cacaaaaccc gcctgctgca catccaatac 300  
 caaacaccac ccttaacacg aaccaaaca ccaactaggg aaagaatttt ccagaaaaga 360  
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 ata 423

<210> 16853  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 16853

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tttgctctct ccattttttt gatggaaatt gctcttggag ggaatggaac agggatatgc 180  
tgcttctgta aatcagaatt accagtggaa gattcacctg catagaaatt gttaggtaac 240  
ttactcttta catgtttgtc atcagctttt tctggagtag agtaaagttg ggcaggttca 300  
tttgcgatg aagaagatgt tgctggttga ggtccttgac acaactctcc tgatctcaat 360  
gtaatggcac tcacattttt aggattct 388

<210> 16854

<211> 446

<212> DNA

<213> Glycine max

<400> 16854

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gctgtcgaag attcttcctc atatgataaa cctttcaacg ttgagagagc cgaatctaac 180  
cacttggcgt atgaaactcg tagcccatc atgataacca cgcgatgatg ccattacgga 240  
tgcccctaag ttctttatct ttctcaacg gacttctcca cgccttgtgg actctttgta 300  
caaccttgag actttggcga ccgaaatctc tcacaaggaa aggcgagagg ctctcttctg 360  
ttggcactcc cctcatgggg taccctaact gtcttatggc aagtgcggga ttatagttaa 420  
taaaaccgct cgtcccatca acggaa 446

<210> 16855

<211> 393

<212> DNA

<213> Glycine max

<400> 16855

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ttagtcaaaa tttcctatta attgaaccta tattttacaa ctatcatcga tttttcagaa 180

actgatgta acatgagttg gctaacatca ggctttacaa aaattaatct taaccaactc 240  
atggtaacat tgaatttttg aaaatttaac gttgtattgt cttatttata atatttttta 300  
cgctttttcc agttcactca tctccctcat gcttctcttc cctcacgctt ctggcaacct 360  
cgaaccctct gtcactctca cactcactct cgc 393

<210> 16856  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 16856

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ttgcatttta ttcttttagtg ttgactcttg actcattggt tttatttctaa ttgttgattc 180  
tccattatac ttctgctctt ttagaaattc tcatagatac attaattaaa aaaaaagcc 240  
aatgcattac cgaaaaaaaa taaaaataag gctcaaaaaa agtcaatac attaccaac 300  
aaaaaattac tatagattac atcaaaggct atactacgac cggatttgta taaccgtctt 360  
actatgtgca cgtactacgc cggatattta caaccgtcga aaaatccatt 410

<210> 16857  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 16857

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tttcatcaca tcttatcggt gtcttgatct gtagtcgatt ttatttcggt aatgggtttg 180  
gacttgaagt agatttggtga gttttggggc cgaggacctata tataacagcg ccgaagtttt 240  
gggttaggga gttttttgtg ggagaggaga atgaatgtag gatttttagaa tatcagctat 300  
tattactgct catgcacact gttgcacgag agaagaacgc attttctacc gatcatctct 360  
aatgcatgca gtagttaaga gtatgctctt 390

<210> 16858

<211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16858

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 ggattcccca attgaaggta gaccacacaa ctgaacgtgt gttcaagaac ctcgttgctt 180  
 ttgagcagtt tcaactatcca gacaagcctt acttttgcaa ctatgtttct ttcattgact 240  
 ctctgataca cactcagctt gatgtggagt tgctggttga gaaggaagtg attgggcatg 300  
 aacttgggag tgataaggaa gtggcaactc ttgttaatgg gttatgcaaa catgttgtca 360  
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<210> 16859  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16859

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 tgggtttttc tgggtgttaat cacaacaatc aaaccatagt ttatgacaca atccttgtaa 180  
 caaatgcaac cgaagagacg tatgtttggt tattagaaca atttgtgcaa gccatgaata 240  
 gtaagaaact atcaacaacg attactgatg gtgatattgc aatgagaaat gcataagaaa 300  
 gatacttttc aaaacatgcc tangttatgt gcttggcact tgatacgtaa tgcanaagcc 360  
 aatgtaaaca atcctgcatt nttgccaatg ttt 393

<210> 16860  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16860

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gaaacccatg ctgcaactgc cattcctata cggccaagtt tcccaccaat ccaacaacgt 180  
cattacccag ccaataacaa cccttctcct tacctaccac ccagttatcc acaaaggcca 240  
tccctaaatc aaccataaaa ccacttttcc acacaaccaa tgacgaacac caccttttagc 300  
atataccaaa acaccaacaa gggaaggaat tttgcagcaa aaagcctata gaattcaccc 360  
caattctgga gtgctatgct aacttggtcc cttatctact tgataatgca at 412

<210> 16861  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 16861

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cggaagcgcc tcggcttaga ttttcttcgc ggaaataatt tttccaagca aattcgaaag 180  
agagagaagt gcctaagggg ctgaaccctt tcctttctca ctctctcccc tattttatagc 240  
aaaatagggg aggtgggttg cgcccagctc gcccaggcga gccagggttg ttcttcagaa 300  
agcaacagcc ttctggagga atattctgga gggcccaagt gggcctgggt gctatttgca 360  
ccccatttt tactaagtac acccccc 387

<210> 16862  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 16862

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ggaatcttct ggagggccca agtgggcttg gttgctattt gcacccccat ttttactaaa 120  
tacacccctt gtcttttttt tttgtgattc ttttttcgta aagttacgaa aacttacgaa 180  
tttcgtaacg atacttggtt tctttcagta atgttacgaa accttgcgta ttacataatc 240  
attccctttt ttgacctacg gaatgttacg gaacctcact aattgtgcaa caatgcttcc 300  
ttttgatttc cgggtgtgtc cggaacctta cggattgtgc atcaatattt tcttttgatt 360  
tccagcacgt catggaattt cacaattgc ctaatgatgg gtgccaagca cc 412

<210> 16863  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16863

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 aataganaga ggcataagac ttaacttana caaaccatca canatgtagt ctttaccaac 120  
 aaaaacacta tgtctagtaa taacaactct atntgactca naaacaacct tgtacccatg 180  
 tnggactaac anagaagtac ctattanatt ttctctctaa tatat 225

<210> 16864  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16864

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 aaccaactct gtcaaaagat taagctgtta ggctgttagg tgaagacaca catgggtttta 120  
 tggtatatat ctaacaatag taatctatta atatagctta cagggttcatt atgcatacaa 180  
 ttttaggtcc aagtcaacgc atatattttc atgaacgaaa ttaggacctg catattcatt 240  
 attagattca tatataaatt tttgtccgta cttccatagt gtccattgac acattttcag 300  
 catatgattc tcttttctat ctctttctcc acaacaatga gcccaaggag cagagttttc 360  
 ttatgagcat caatcaagaa cgtacaatta tttatattac atgatagaca aa 412

<210> 16865  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 16865

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 ttgtaactcc catcaatact gatattgcaa catgcttaat tatatgcagt agcttattct 120  
 gatcattgcg tgtagtgtga ttatctcttc catgcaggta catgattcct atttgtagtg 180



aaagagaaat gatgggcagc agaacctaac tgaggagagt atataataac ttttatttgt 240  
ctttatct 248

<210> 16866  
<211> 119  
<212> DNA  
<213> Glycine max

<400> 16866

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aaagatgaga taacagcata tgacccact aatagaacat attgcccgtg tggcatat 119

<210> 16867  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16867

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tggaggcaag ctataactgc tgctggatct ggatgcgttg cagctttatc acgtgagaga 120  
tatcttgtga gcaatgatct tcttatagag ttccatcagg tatttgactt caaagaactc 180  
ctattttgtt ttcgcttata gttcttttgg tatataaac tgtagattga gtgtacacat 240  
cacattacca atttactgta tctttattat atgtcttaat tcttgtacat ttccacagaa 300  
gcagatgcaa ctttagcaag attngcttgt aaaacttata tctataaatt tataaaactt 360  
aataaattta gtgcatctaa t 381

<210> 16868  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 16868

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ttgctgtgtg aagatctgca gagaccagag cttgaagagg aagctgttct gagagcttga 120  
gatgagtttg tgagtgggtg taagatccta gagataaagg agacatcctc accacttgta 180

tttttgcaat ctttcatctt gttcttttct ttgatgaaaa ggagacttct tggctatgga 240  
 aagctaaaaat cctctgttgg atcttccctg taggtacttg atgtaaataat ctttctatct 300  
 atttaatgat gttttgtgtg ttctctgagc tatcagcttt tcattctagt atgcatttac 360  
 cttgatcaca tagatacatg ctatgttagg gtcatt 396

<210> 16869  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16869

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 aatcaccatt aaaggacctc attgaagctc aaagattcag cctccataga agccccacaa 180  
 gcaagcttcc atcaacagga ttagtaagtc tggacttgtc accagtcatg tgccatagtgc 240  
 agccattatc caagtaccat agtgagtctc ttgctnntag gcacacctac aagacaaaaat 300  
 caattagaga gaggtggtac ccaattgaga ttaggtccaa taggggttaat ttccacaatt 360  
 aattctccgg gaatccaaa 379

<210> 16870  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16870

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 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctggtcatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240  
 ttatccattt gtgcattcat ccaagtccat ttcgggcgtc cgggaaaatt ttcacagcat 300  
 tcacccttca ggtgtacaca cattntttca aaaactagct atgatcagcg aatttttctt 360  
 caaagaaaag ttggaagtca tct 383

<210> 16871  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 16871

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 tttttactcg gatgattgat tgagtcccgat attatatcga gaccctcgaa attgaatggt 180  
 gaagctctga gccaaattcaa acgacaataa ctttttactc ggatggccta ttcaatgacg 240  
 tattatattg ggacgtttga aattgaatgt tgagcctctg agcaaataca aacgacaata 300  
 actctgatgc aatcctccct atgaaggagc caatcactag aacctagagc aagaggctcc 360  
 aagaagattg ggctagag 378

<210> 16872  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16872

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 aagttattgt cgtttgaatt tgctcaaagc ttcaacattc aaattcgagc gtctcgttat 120  
 attataggac tcagtcagac atccgagtaa aaagttattg acgtttgaat ttgctcagag 180  
 cttcaacatt caatttcgag cgtgtcgcta tattacggga ctatattcaga catccgagta 240  
 aaaagttatt gtcggttgaa tttgctcaga gcttcaacat tcaatttcga gcgtctccat 300  
 atattacggg actcaatcac acatccgagt aaaaagttat tggcggttaga attgggtcaa 360  
 agcttcaaca ttcaaattcg agccgctcgc tatattatac gactc 405

<210> 16873  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16873

ttcttgcaaa agttactagc taatttctta cgacagcgag aatatagaga aaaagagcat 60

agtcaatttc accagttcta tgtgataaaa ctgaaagtca tctagaatat tgaagtccta 120  
 taacaattga caaacaccat tcaaacccttc tctaactgta accttcatat tatataatta 180  
 tttccccaat tatgatgaac tccacaccag catggcctgc aataccaaaa tgttttgcta 240  
 aactcatctt cgatttgtag tagatattgt tggttttgtg gaggaaatta taaaaaacag 300  
 aggagagaag agagacaata cgtatacaga gaaaatagaa ttattctatt ctaattcana 360  
 ttattctcag cagcgataca at 382

<210> 16874  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16874

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 acgactcaaa tgaaaatctt gccaccgttc ctgtgcttgt aggttgacaga atttctgatg 120  
 atatattggc agtttgtggg tcgaaataaa tggcagaaga aaggatcatt ctacaggcca 180  
 acatttgcaa attcattttg caacaagttg attgtgtttt cctgagatga gtttgctgca 240  
 tcttttctcc gttctggtga gattattcct ttgcttcttt ttcttttatt tcttccttca 300  
 ttttgttcaa ttgccccaga tttgcgcttc ctagccaacg gatttgatag ttcttgatcc 360  
 ttggtatata cccagcgata tccgaatttc ttcacctcag catgactctt tccactct 418

<210> 16875  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16875

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 gttgtgtgtt ctgaatgata aagggcgcgt aatctgtctc tacgcattta cccactcagc 180  
 ttgctattcc tgaatgataa agggcgcaga atttgtctct gcgcgtttac cccactcagct 240  
 tgtgtgtgctg gataaccgca tgtcaagtta ctccagtgct agtatgacag aaattgtctg 300

cgcggaagat gacgtanac tccgcgtgtc aacaggcttg ttggccgcga ttgacaaagg 360  
gtgcagaaga cgacgttagt ctctgcgtgc ta 392

<210> 16876  
<211> 420  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16876

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aaggctctgag agaccataca agtttcctaa cgattttctaa ttatgtgggc cattaagtct 120  
atcatatgct gacaatagcc gagaagccca tgaatctctt cggggggcgga gtaggtgtct 180  
gccatgcct tggccttggc taacaatcgg ggaagttctt gactcccggt caaggtaaga 240  
gcaaaccgat ccacccacat ggttgctct tgggtgtaaag agtcgatcac cttcctcta 300  
gcctctTTTT cgcataatac ttgggcatac tcatccgcga ttctatgctc gtgggccgtg 360  
gctagacca actcttcttg gtacttggcg atgatagcta acatgttggt ctctgtctcg 420

<210> 16877  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 16877

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catcttctag ttcctcagaa tcttcttana tcccacggta natcatggac agtatcttgt 120  
gaagtanaaa caaatctcga gaagatcgaa cgggtgaacga aggctgngca gcattnttac 180  
cgatgcagct ccatgtagtt ntctctagaa gcttcattaa gaggcttcta gcagactcca 240  
gacatcttct canagatccc aacggtcaga tcatggaaag gtgtttgtga agtngcagat 300  
ccaattcgag aggaccaacg ggtaatgaat gctggcagcg ttntaccgag gcagctcatg 360  
tagcttctct agaagctcat taagatgctt ctctagaagc tctctggtgc tctctgcacg 420  
cttctcanan ggc 433

<210> 16878

<211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16878

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 catgtcataa atactcatcg aaaaatgaac aagatgaggt tgttgcaaaa gcacaataga 120  
 agtttcatca actggtttag acaaacaatc ttgcgagatg acagtgtctc gaagacattc 180  
 aaattgttag ctattggtct aaatctgaat gttccaactt ggaagggata tgatatcaat 240  
 cattattctt tctacacaaa gtcacaagat ggaaacagta gcacgcagaa cagtgggggt 300  
 agtgttgacg gtcattcaaa tctgatggaa ccttgcttgt ggagcttcta tggaggctgg 360  
 atctttgagc ttcaatgagg tccttcaatg gtgattntcc accatggaga tgccgcggaa 420

<210> 16879  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16879

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 atgttccata attttagatt aatccttcca tacttcatac cttatgccca tttttaagac 180  
 caatttatct tttgcatcca atatagcttc aattatttgg agttctcttt tgtggcttga 240  
 ctatatgttg gtttttttgg atgaggtgca aagtgatttt gcaacataat gcactttgtc 300  
 ttgataagat atattttctt gactgcaata ttgcttgaat tatctagcca ttaaacatta 360  
 tgctctgact ctagtttttt taactcgata taa 393

<210> 16880  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16880

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aggcggcgta tggaagatgc atgaagacat ttataacttt ttaagaaatg tttagacaac 120  
gtttatcatt ttattttatt tgacaaatth tattagacat gttttttata caagtatcgg 180  
acctgtatat cataggtcgt gaattaaacc acaaacccta tattagacac gtagtaaata 240  
agtagctaaa tcttactct tcaacttaaht caacatagtc tagtttcaac accatcaaht 300  
ntttgtactg ttgcattcta ctaatatatg gagttggcta ctgctttgcc tgaggatgac 360  
aatgtctaga ccataacaaa gctagaggcg ataagggaaca acagtctctt aaaaaagtc 419

<210> 16881  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 16881

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aaccactata gttgagtgct gaagatcatg tgcgtatgca accgagggta tcatgtcatt 180  
acatgtttga gagagtgaag gtatgtctta attcatctat ccattcttaca tgcaagctcc 240  
gactaattcc agcataagac tacattttta tgatactaga atagacaaga ctagcatgtt 300  
acatcatgtc atgaatattg gagaacagac ttgaaa 336

<210> 16882  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16882

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tcaaccaggc ttcctactta taggcaacac actataatgt ttaacatctt ggcgctaata 180  
actacagaat gtagcctaac ttactaaaaa agggaaatgt gtgaatactc atgatgatca 240  
tttcaaagtt ctgaatctca tgcgtggaat tttctattgg gagaaagtaa atatcttatg 300  
gtattgcacc atctcaatac atatggtact taatttgtac agcctttcat gcactgttca 360  
gctgataaag tctatctct 379

<210> 16883  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16883

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 gcttgaagaa gtttttcttt tacatgccta cctcacttga gtgacatttg tattgattgt 180  
 tgtatttgtt gttgcatctt aatctctatt ttttcatatg ggcatcatgc atcatcattt 240  
 aggagtaaga agaaagggtt taaagttaga aaattttctt agtggtttaac actctatatc 300  
 ttaatttatt atatgcatga ttgtaatcga gtacacagtt cagatgagac aatgattggc 360  
 tttttacgag tcattgcttt aattgat 387

<210> 16884  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16884

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 cagtggcatt gtgcctttct ctaataatct caacaaaaaa cgaaatcaag agacataaac 180  
 actagcattg ggcctttctc taataatcta tttctataac gataaaacgc agaaaatagg 240  
 cataaacgac gaaaaaacac atgtacacat gcatataaaa aacaaatggt aaccttttaa 300  
 gagaacaaaa cttgttgcc gtcagagag tgacactgat atagggtgng caaaagggtt 360  
 caat 364

<210> 16885  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 16885

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 ttgtataaac ctgaaaactt agtgccgagg aatgtacgag gggtagtagg gtttattctg 180  
 caaaaagagt ttacctggca tctgaataaa aatttatgtt gattgcagta tgctggatta 240  
 tgtcatttct tcgggttttt aattaaaatg gtcactagtc tcatttattt tttgcttgct 300  
 tatagaaatg agctctaatt gattaatttc ttagtttaag acattcttaa ggaagacagt 360  
 aatgttctt 369

<210> 16886  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16886

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 accattgaag gacctcattg aagctcaaag atccagcctc catggaagct ccacaagcaa 180  
 gcttccatca agtggtaatc aaagcacaag agcttcaagt aggtgctcct taaacctcca 240  
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 cctcacatgt cttgtgataa atattgttaa catgattctt tagagtttcc accgattaaa 360  
 cttgctataa aagctagatt tgattgtcta tggatcaaaa ttcttgctct tgttct 416

<210> 16887  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16887

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 tttgtgtatc ccctctcct tgtcaaagaa ttcaaaacga catagactga gaattctttt 180  
 gattcttccc attccctaatt acaaaagtgt tcaaaggact aaccgcctga gaattctttt 240  
 gcatcccat tcacaaagta tcaaaggttt aacagcctga gatctttgtc tcaacacatt 300

ggagggtaca tcctttgtgg tacaagtaga gggtagatct acttgggtgt gactgacaac 360  
aagagagggt acatctcttg tggatcaatt ct 392

<210> 16888  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 16888

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cgggcaaaga ggacaaattc tgaaagcaag aaagtgggtg agtccatata ctatggatat 120  
tgattgacta cagcttcaag gactccaagt taggatactc aacctgtcaa cattatcctg 180  
ggtagattat cactcacaag taactaaaga acgcctttca ttacttctct aactaactca 240  
agtaaaaaat gccattaaa ggcaaatgat ccaattggct tgttgagaac tggcaagtaa 300  
actctcctgt tacatgacca ccatgtctaa gagacaattt gtatctctct agacaatact 360  
attga 365

<210> 16889  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 16889

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ctaattagggc caagagagca tcgctatacg ccagcccaaa gacactcctg ccatttggtt 120  
ttactttttt taattttttt tatcgatatg aataaaaaaa aattataaca attaatgcac 180  
gttcaaccag ttagacgtac tcctttaata aagttatatg tttaatctta ttgtaatata 240  
taaattacaa ttaatccata ttagaatata tctgaaacaa caatatctta attcttatgt 300  
tattatccag tctcacgtta ataaaattta ttaaagtgtc tatgaaagaa aatcaaaatt 360  
acataattac catacctc 378

<210> 16890  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 16890

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aaccctttta acaaaataat aaaaacaatg gagatccctc agcagacaaa agaattgagta 120
aaattaatta ataaccatta accagggtgaa gcttgtgata gttattaatt agaagatata 180
acttgaaaag gatatcggag tcatcaaaat catcggtcaa acagatgaag aaaggatatt 240
aagaatggaa aaccgaaaac actatattacc cattaataat cgagagtaga tataatctggc 300
tggcgtgcta ataaaagctg cctcagctgc gaaacatgtg tattattgtg tgtatatattt 360
gagctacaaa aggttttaaac atgacgtana aagtacattc ccgtacggag taaagattt 419
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<210> 16891  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 16891

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caaacatctg acctagattc cccttactta caacaaagag aattgtctag tgggaaggga 180
attacgtcta acggtgttat aagatcgaac ccatagacaa cct 223
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<210> 16892  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 16892

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ccctcacggt ttcttgttcc aacgcctggg cagttgcttt atgtgaatct cctagttcag 60
gaccctcctt tcagataata agagctgctg atttgaacct tcacttgact atttgcgcta 120
gcaccagttg ctccctaaag gcttgcacct ctttctaatt cctcaggggc ctcaacttcc 180
tcccttctat cggctctgag aactcgggag ccaattcaaa cctttaacgt gggcttctta 240
ccaccttcgg tatccaccga tgtggcccat tgtcactgca cctaattgtca tatccttctt 300
ttcaccacct accatgcctt gataccatat gaaatgtcgg ccgc 344
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<210> 16893  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 16893

tgcttttgtt cctttttata aaaagagaag ttctgaaact catcacgttt tctaaaaagg 60  
 ccttgagggtg gatccaagtg ctctgatcat tcattagcat attcatgatt tgggtggcatg 120  
 ctcaccattg tttctttctt tagggaactc accataacta aaaaagcgca aaggcaccgcc 180  
 tataacaccc gatccaaaag taagatggat aacgaagagg gagtgcaaga acagatgaag 240  
 gccgacatgt cggcttttaa agatcagatg gcttccatca cggaagccat gctaaaaatt 300  
 caaaaatcaa tagaagacaa tgctacgaca gttgcttcca atacaactag ggaagcggaa 360  
 ctggtgctac 370

<210> 16894  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 16894

tgcatattca gcctgacgat ggatcgagag ttttgttatt taggggtacaa cataaaatac 60  
 aagagcacga ttgattagag aaatatatct ctatgcatca gcttggtttgt tagaaagacc 120  
 caacatatct acctactgct atcattttat ttaccttgca ttttatagtt tttagcatac 180  
 aagtttagtt taaatcttct ttgaaattat cacttataca tgttctctca acaatgcttt 240  
 gattctaaac ctaattcagg ctaacattag ttccttggtg tcgatacttg gattcatccg 300  
 ttctaaacct aatccagtaa acccccattg aaatttcctc gagacataaa tgcacaaaag 360  
 gtaactgcag tgggggattca tcattgggga tcatacaac 399

<210> 16895  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 16895

tgcttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60  
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120

gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tccttcttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240  
 tccacctctg ccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
 tgattcttga gcctaaattg aatttcagaa cgagaccttt cacctcgttt tggaatcacc 360  
 tcatttgag ccctgtagct 380

<210> 16896  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16896

acttcttggtg tctctcccca ttatatacca acattttttt tgagcacttc atagacaggt 60  
 gctgcccattg tgctaaaatc cttcacaaat cgactataaa aactcgctaa gccatgagtc 120  
 gcaacctacc cttcggcggg agggcgatgc ctgactctcg cgatgcgtga tccacaaaag 180  
 gaatacgcg cgtgtcccca ctaatgatta tttgaagaaa acgtcggacc aaccggaaaa 240  
 gaagcgatct accaactntt aagtgaagg ctcgggagtt gtatttacgc ctggggaaaag 300  
 tattagcacc ccaca 315

<210> 16897  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16897

tgctttgaaa tttgaaaacc ctagcatggg ataatctatt aggcaccta agagtttatg 60  
 aattccatct tcagaactga gataatcaac caaagaaaga tttatttgcc cttaagtcta 120  
 gagagacaag ctccaaaaga ttagaaaaga atgcttctct aaatctctta aagtgaagat 180  
 agattattct gatgggtcaa acaatagttt tggagattcc acatatgatg aagtagctct 240  
 catgtctatg aggttcaagc aaatgatgaa aaaganaggg aagttccacc attcctccaa 300  
 aagaaaggac ataagattca agatgaaata cgaggaggat agcattgaaa tcatctgctt 360  
 tgaatgttga aaacctgggc atatgaaaac t 391

<210> 16898  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16898

tgcttgtggg gcttctatgg aggctggatc tttgtgcttt aattaggtcc tttaatggtg 60  
 attttccacc atggaaatgc agtggaggc aaaagagaaa aggtgagagg aggcgccatc 120  
 cactagggaa caagccatgg aagaaagagc ttcaccacca agatgagcct tggataaaaa 180  
 gcttggagag gaagcttcaa tggaggaaaa gaaagaggga tagaaaggga gaggggggag 240  
 cacgaaattg aagtaagaaa aaaggagag aagtttaact ttgagttgtg tctcacaaga 300  
 ctctcattca tcaaagttac aacaagtgtt acacatgttt ctatttatag actangtagc 360  
 ttccttgaga agctntcttg agaaaacttc cttaagaagc ttccttgaga aaacttcctt 420  
 gaga 424

<210> 16899  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16899

tttctttgtt tatatggaag ccttgcaaca aactctagct ctgaaaaatt ggaaataata 60  
 ttgtaggaaa catcaagtcc ttcaagtac ttcaaattct caatcccatg caaagtagtt 120  
 agagcattgc tctcaaaac tagtttaaca atatgacagg aaacctgcaa ggtccaacac 180  
 aattgtatat ggggtctccag agcaaatccc taaatgaaag gcatacaact aaaacaaaag 240  
 atattaactt ttctacaaat aaattgctnt cattgcattt aaggatcctg tcattcaact 300  
 ttcaatcctg aaatatcaat tcattctcca tgaatcgag aagtcagcac agcaagcaaa 360  
 taaagacat 369

<210> 16900  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 16900

tcttcagatg aacttccaac cccactgctg aatgatgctt cgtgagacga atcaagctct 60  
cttcatgaag gactggctac aaaggaagaa tcatcaaact caatgtgtga tccagtagca 120  
tcagatggaa taagtgttcc aagagctggc attaggtcaa caatgtactc cctgaaattc 180  
atatcattat caatcacaac ttccagatac ataataacaa ggctttgcaa ctctactta 240  
agaaacttac aaaaagaatg agagaacatt cagctatagg caatattaaa tgattaattg 300  
aaaaaatgaa caaaatgcta caacaggaaa gtctaaccac aacaaaagat actagtaacg 360  
taacacatct tcaagtcagg aacaatataa tataacatag cttcaagtct gtacacag 418

<210> 16901

<211> 392

<212> DNA

<213> Glycine max

<400> 16901

ttcttgtctc agcgtctatg cgagacagaa accaacatgt tagctatcat cgccaagtac 60  
caagaagagt tgggtctagc cacggccac gagcatagaa tcgcgatga gtatgcccaa 120  
gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc cggattgtta 240  
gccaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300  
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaagaaact 360  
tgtatggctc ctcagacctt gactagatat ga 392

<210> 16902

<211> 418

<212> DNA

<213> Glycine max

<400> 16902

tgcttgtggg gcttctatgg aggctggatc tttgaacttc aatgaggtcc tttaatggtg 60  
attttccacc atggagatgc agcgaagac aaaggagaag aggagagagg aggcgccatc 120  
cactagggaa taagccttgg aagaaggagc ttcaccacca agatgagcct tgcataagaa 180  
gcttggagg atgcttcaat ggaggaaaag aaagaggag agaaagagag agggggagca 240

cgaaattgaa ggaataaaag aaggagagaa gtggaacttt gaagtatgtc tcacaagact 300  
 ctcatcctc aaagttacaa caagtgttac acatgcttct atttatagac taggtagctt 360  
 ccttgagaag cttccttgag aagattccta aagaagctag agcttagcta cacacacc 418

<210> 16903  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16903

ttctttatct agtaaaatgc aatcttcac tttgcattta aaccaccta accttagtga 60  
 taaaaattca atttccaata tcaatgcacc ttatctttta tcttggaact ctacaaaacc 120  
 ttacactttt atctttctat aatttaaaat tctcactttt cttttttact ttttgataa 180  
 acttggtgga atgaaatgtt agtagtgaat gaatatttga gaattggaga aactagaagt 240  
 tttggaggaa gaggtctact gtataattga tcaattcttg tttttttttt gcttgataga 300  
 gaaaaaggaa attgaaaaat aacaaaaaat aattgaattc taacatatat gcaactgattg 360  
 aactaatcat ctaaaattgt gctcgagta g 391

<210> 16904  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16904

ttgaacaata tacttggcct tcatttaact gtctttgggc ttggtggcca cgctcaacaa 60  
 agtactttcg acacctactg tacgttgatt tcaccaatgc tggtatggga atgttgcgac 120  
 aatcctttta aaccttattg atacattcta agagggtcgt tgtcatgtgg ccatatcgat 180  
 gtccttctct atcgtaagcc atcgccatt tttcctttga gatgcatca atccatgttg 240  
 ctatgtctgg actcagttca cgaaattttt cttaaatttg ataaaaaatg tgcttgcatg 300  
 gagtgtaggc tgcataaaat tagttatgaa taacaatntt aagtataaat gaaagtaaaa 360  
 taaacgtgac catcaaatat gaaatcttac ccaatttctt caacatttc 409

<210> 16905



<211> 393  
 <212> DNA  
 <213> Glycine max

<400> 16905

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ttcttgtgac gttaaaaaag cacttgctgg gaggcaaccc aacttttctt tcccttcttt 60
atcttcattt ttatttcttg catgtagtta ggacatcttt cttgtgattg tgattgattt 120
cagcttgttt agtaatgaac aaaaagggtt tttaaattgt gtgtgaagag ataagcagaa 180
aatgacttag aaaaattttc agattgctta tccgctaagc acaaaccttg tgctaagcac 240
catctcttca tgcgctatgc cgagcttgct cgcgctaagc gcaaagacct ctgattgatt 300
ggctgaatgg ttcagctaag cgcacatcat tgtgctaagc ccaacatctt cactataagt 360
tgcaccttaa gcaatgggct tagagtggat gat 393
```

<210> 16906  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 16906

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aaactcagct tcttatccag gctcatctta gtggtgaagc tccttcttcc atggcttatt 60
ccctagtgga tggcgctcc tctcacctct tctcctttgt cttccgctgc atctccatgg 120
tgtaaaatca ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc 180
cacaagcaag cttccatcaa aaccttttgc tatttcaatt tggaattccc ttcttaaaat 240
actagagatc ttcttgatgt tgtatcttgt attcttggat tgttgtcttg aattaaacat 300
gagaagcgca ttttcataag acatcaaac atcacgatca tatggcgtca tcaaaacatc 360
aaatgtaaag tctttgcttc tacaatctca acgtctttgc ttttacaaga ttgaatgggtg 420
gatgc 425
```

<210> 16907  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16907

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ttcttattct tgntgagtac tttgcagtc tgtattgctc ctgcaaaata actcatgcct 60
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gcaacactgg ttttgttctt accttgaacg agttgaaggc aatctgtctc aaaaataaca 120  
 ttataaaaat agaactcgcc tgccacttga atcgcccact tgtagcataa agcttctgca 180  
 gtccttggtt catatacacc accgtaacca ttatggtagc agctcccaga accagttttt 240  
 catggtctct ggccactact agccccattc ccgtcccttg attgttatgg gcagatgcat 300  
 caaagttaat ctttatgcac tgtagaggt 329

<210> 16908  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 16908

tgtagataac actgcggtg cagcattcat ttcttttctt ttccaacctc catcacctt 60  
 gttgccc aaa ttcctttgat ctctaagtac atcaaccaat acacgttcca tttccaaatt 120  
 ccatgtaaaa taacttcttg tattctcatt attttttctt aaaacttttc ttttgtccgc 180  
 cattttttca ttacatgact ccattgaaga taatgtcact tattcaacct gcacataaca 240  
 aatagtagat atgacctact ttattcattt gactagtcca ctgcacaatc atagaaaata 300  
 tttcaagcaa atgttttatg caatagcaca gtacataaaa gtctatcttc aataaaacag 360  
 tacaatagta actaagcaca catagtttgt caccaatagc agattacatt t 411

<210> 16909  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 16909

tgccaccaa cgcgtgatgg gacattaaca attataaaaa aaagaagaat ggtgagactg 60  
 agcctaaaac cagccgggag ccgagcgacg cagcagtttt tattacatag cgaccggggt 120  
 ggagaggcac caaccagga caagaacgat cgcaacaacg accgtaatat atcgggaagc 180  
 acacaaccaa ctataggatc gcacgagaac cgcacaccat gggagagcga taacggggga 240  
 agaagaagaa gggaagccac aagaaaggag aaacaagctg gggagagcca cgacgcggtc 300  
 aggccggtgt tcggcgatcg acaggagacg gccaccgcaa aggagccaca catgccggag 360  
 acagctcaa aggacgcggc cc 382

<210> 16910  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16910

gccgtgcctt gtactcgttt gcgnctcca naacacncca cccctggaca tatacttggc 60  
 cttatagaac tggttttttt tttcgcggtc aacctcaaca gagtgctatc gacacctatt 120  
 gtacagggga ttctccaatg ctctatggg aatgctgcta ccatgcttta aatactatt 180  
 ggtacatcca tagacagtta tctgcatgag gccatagtga tgtccttctc tatcgcacgc 240  
 catcgtcctt gtttcctttg agagctcatc aatccatgta gctatagttg gactcaggct 300  
 acgaaaatac ttctaaattc tgataataaa aaggcctgcc cggagcgtat gctgcataca 360  
 attacttttg attcaccatt ctaactctag acgaacagta tactaatcgt gaccctttca 420  
 tatgaagtct tatectatct tcttaacagt ttttcttgac tgccg 465

<210> 16911  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 16911

ttcttgcatt cttctccac aattttctat aaataggggg agaagtgaag tagaaaacgg 60  
 ttcatccct tacgcaattc tctctcttc gaatttgctt acgaaaattg actccgtgaa 120  
 gaaaatccaa gccgaggcgc ttgcgtaacg tttccgtaac gttaccgtga gtgatttcgc 180  
 gaaggttttc gaccgttctt cgacgttctt cattcgttct tcaccattct tcaggcttca 240  
 acgggtaagt acctcaaacc aagcttttct gttcattcta tgtaccgtg gtgagccaca 300  
 ttaggtttca tgcatttgta tgctgatgc atttacttta tatacccgct tttgacatgc 360  
 tgaagccatt ctatttaagt catttc 386

<210> 16912  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 16912

tgtagggtta aagtctcacg gttgtcacgt tctcgtgcaa caattgttag ctgtggctat 60  
acgagacatc ttgccaaaca aagtcagggt agcgatagct cgcctatgct ttttcttcca 120  
tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggccgc 180  
aattatacta tgccagttgg agatgtatct tccccctgct tttttgacat catgattcac 240  
ttgattgtgc atctggtcag agaaatcaaa tgatgtgggc ctgtttatct acggtggatg 300  
tacccggttg agcgatacat gaagatctta aaaggggtata caaagaatct atattgtcca 360  
gaagcatcta ttgttgagag gtacattgca aaagaagcca 400

<210> 16913

<211> 488

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16913

cgtgcctttg atcgtcgacn tttgatagca taggacncac ataggacgaa tgacatgctc 60  
gtaagcggag atgctcgaga tgcgttctgc atgcacgctt tctcgatgac gtggagtata 120  
atccaaaggt gattcatgct accataacca ccttatgctt gtagaagagg cccttagact 180  
atatgtgacg cgactgacct tgaatggact ctacatgac aattgcctta cagacattta 240  
ccactgcac atagtctgat gactgtcata ctaaaccgtg ctattaataa cctagaagat 300  
gctctgtaca ttcaaccttg cattaagaaa tgcattgacg gattacttcc ttaactgacc 360  
cgcaagataa agcaaatttt attccttgct cctaccggac cttaatggac tcgtatgacg 420  
tctccatagt gagaggccta cgagcgacaa gactaaagga ggtaatggca gttgatatgc 480  
gategtct 488

<210> 16914

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16914

agccagctgg catgatgcgt cgattgacnc cactggacan acangncaca ctatatgaaa 60

ctccagctat aacagggcct gcacaattta ctttcataaa atctatcgac agcgcggtgaa 120  
 cgacttttatg caccttaaata gcaaagtctt ttttgataa ctctgctagg ccatgcacat 180  
 aggggcacgg gcttgctgat aaagaccatt gttcaatgtc acgaatcata tctaccagc 240  
 gagctccagt tattacatca cacggctgag atagggaccc actcagagtg tctgtttatt 300  
 caccatgcca gatgcatgtg gcgtaattac tcttaatccc gatccacaat agatgctcta 360  
 ctatgtagtt ccacttttag cgacttctca ttatacgata aaagccaaga caataatctc 420  
 tttcgaccgt aacttaatcg attagatttg aggccaatcg caacaactgc ttgacgcc 478

<210> 16915  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 16915

ttcttatgtt gctagcatat agcatatcat caacatataa caccaagaat gagtatttac 60  
 tcccactaaa cttgtggtat acacaatcat caactgcatt tgccctcaaaa tcatatgagg 120  
 taatgacttg atgaaacttg taataccatt gatgggaagc ttgtttcaaa caatagatga 180  
 atttatttag ttgcaaacc atagactttg agtcacctga taciaagttt ttggttgca 240  
 tcatataaat tgtgtcttca atgtcaccat ttagaaacgt agtcttaact acaatctaaa 300  
 agttcctata gcctccatcg caaccttttt gccatcgcca acaaatatga atctttcatc 360  
 atcacttgac ag 372

<210> 16916  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16916

nttaaagcag cttttagata ctgcttcct catcagacct gtcaagcctt cagccactag 60  
 atcaaaaaga aggggtgcca aagggtcccc ttgtctcaac cctctttgag gtttgaattc 120  
 agaagttggg ctaccattaa caagaataga tatggaagct aagggtgagac aagcccttat 180  
 ccacctaadc catctctcat ggaaccccat tctctcaac atatagagga gaaaatgcca 240  
 agatacagaa ttataagcct tctcaaagtc cactttaaaa accatgcaag acttcttgga 300

tcttcgagcc tcctcaatca cctcattagc caccaaaact ccatggagca attgtctgcc 360  
 ttttataaaa gttgtctgcc tttcatctat aagataaggc atgac 405

<210> 16917  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 16917

agcttcctgc acaatgagtc aatgactaaa ttattaagag agttactcaa gctaccataa 60  
 ccttatcatg cctgtgtcag tggcacttac actaatcaag cgtcaagtac caaagaagca 120  
 ttagaaagga aagttagttt acaataatta tagccgcaag taatactgag tactgacaaa 180  
 aaaaaccata ctaagaataa attagaaaag gcacggaaca gtctaccttg catcaggaat 240  
 tccatgacag attacttcat taactgacct gttagataaa gcaaatttca ttcttaacat 300  
 ataccacaac gatatgagaa aaatatgaca ttacagaagg aaagtaccta cgt 353

<210> 16918  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16918

nttgtaactc cacctatatc tggccttcac attaaccaga cttaatacca ttgacaacag 60  
 catcaacaaa tttttgcacc tcgaatacaa aggccttctt gaatcacttt gcaatgtatc 120  
 atacataggg gcatgtgctt gctgaaaaga ctcttgtcca aggtcacgaa tcatatcctc 180  
 caagcgatct ccaattttcta catcaaacgg tttagattgg gaccacttt gcatgtctgt 240  
 taattacca tgccatatcc atgtggtgta attcttctta atcccatcac acaatagatg 300  
 ctctcgatg tcgtccagta tttgtcgtct tccattcaaa caattaatgc aaggacaata 360  
 atatttttcg tcctcattcg atcgacttct ttcggaggca aattgcaaga actgtttgat 420

<210> 16919  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 16919

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tgcttgatca agggtaactt tgatgcatcc attaaggaag ggagaggtag aagctttgga 60
gttatcttca aaaacaacaa tggagaagtc cttgcagcag ctgcaaagat cctgccttat 120
tttcagcct catattaggg aggctatggc ttttcgctag gccattgaaa ctgctcattc 180
actacttctc cccttaacca tctttgaaac tgattgccgg agattattcc ttgcttgga 240
agatagatcc tcagctgatt atagctactt cgatggaatc attcatgcta tgcccatgtg 300
ctacactagg attcttcaga ctttttaata gagctgtgaa ttctctagct agattagctn 360
tttttattaa tgattntggt tgga 384
```

<210> 16920  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16920

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tatgctgcaa acatctacaa cagacctcct caacctcagc agcaaaatca gccacaacag 60
aataattatg acctctccag caacaggtag aatcccgggt ggaggaatca tcccaacctt 120
agatggctga atccttcaca atagcagcaa ctttgaaagc caatagttgc ttagtggttaa 180
aaaaaatata gagtgcacaa attatttaac aacactcggc gagtgcataa acaataaagc 240
tgaagtatag agtaactttg ctttgcaaag aaaaaataat gaaaaattaa atgtatagtc 300
caacaatttc tgcaaagttt cacgttagag attntctcat ttctttatga ttnttttcat 360
gtgttacttt gagatagaga ttgcctttta taaaattcag taaatgattc attgtgggat 420
t 421
```

<210> 16921  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 16921

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ttctttgatg caacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gaggggaatga 120
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tgggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat cccgaggcct acttggagtg ggagatgaaa atagagcatt tttctcatgc 240  
 aacaactatg aggaggacca aaaggtgaag cgtgccgcca tggagttttc cgactatgct 300  
 cttgtgtggt ggaacaagct acaaaaggag agagcaagaa atgaagagct ggttgataca 360  
 tggacggaga tgataaagat catg 384

<210> 16922  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 16922

tcaacattca atatcgagcg tttcgataaa ttactgggac acaatagaac atacgagtaa 60  
 aaacttattg tcgtttgaat ttgctcagag ctttgggtatt caatttcgag cgtctggata 120  
 tattacgtgt ctcaatcaga catccgagta aaaagttatt gttgtttgaa gttgctcaaa 180  
 gcttcaacat tcaatatcga gcgtctcaat atattacggg actcaatcag acattagagt 240  
 aaaaatttat tatcggttga acttgcttag agcttcgata atcaatttcg agcgtctcga 300  
 tatattaccg gactcagtca gtctaccgag taaaaagtta ttgccgtttg aatttgctca 360  
 gagcttcggt attcaatata gagcg 385

<210> 16923  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 16923

ttctttattgt gtaaagttaa aatgcatggt aaccttttat tctttgagca taaggcagcg 60  
 atggtgtctc agctaacttg ctagtgtttt ttttgctttg gcttaatatt atttgatcat 120  
 gctctttaga acaatatggt tgtatccatt gctcaatttc atcttaattg atatttctag 180  
 tcactttcat ggccacttga aaatttatta ccacaatttc aaatatctat gctgctcttg 240  
 gcttggtttt ctttagagat atattgcaat attacaacat ttcaaagtgc agtcagtgtt 300  
 tttgacagtg tactttgcat actgatgata atgttatgaa catggggcctt ttctggaaaa 360  
 gattagatca gacaatcctg cgataccatg 390



<210> 16924  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 16924

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agaataactaa gcttgtcgga tctcaaagat gtgtcacagg gcaccaatct ttatcaaatc 60
atataacaag ctctgttgct ataagagggt ttctaaactg ggtgcaactt agatagacaa 120
atgaagatgg ctgtcaatgg catcaagaac aaagggtgaca gacatagatg attatttaat 180
tattattatt tataacaacat tttattgctt cgacatatat attttttttt actcgacgga 240
gtgttttcatt tacttatttt ttgtattcca ccactattta aacaacatgt gtctaatacc 300
tataaataac aactgttcga ttgattcata acacacatat ttggatttac accacta 357
```

<210> 16925  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16925

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ttcttgtcct acaattgcta gttttttcat tgacagttgc ccaatgggta tcatctgcat 60
tgatagcaaa tctcacatcc ttggccaaac gaagatacat ataccaatth aatataaatg 120
gagaataaat taccgttcta ctctgatcta caaatgctgc tgattccctc acttggccat 180
tagtgatgcc tggcatatat ttgcgctggt tctgtactgg cacagactct ggagataaag 240
gttccttgat gtcttccgca tagtgtttca atgaatttgg agagtttccc tgttgacaga 300
gagcgatgat aaattaacag ctgacaatga aagctatata gatccgatca aaaagttagt 360
ctcatagata aaatcaa 377
```

<210> 16926  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 16926

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tctttgttcc tatggttcag taaggccaac aatgttcagc gcccaggggg ccgccgagga 60
acaggtcctg tgcaacaacc ccaacagcca atgccaatga tgcagcagca ggtctgctct 120
```

tgcacagagt ttccaatttt tttgtttgtc tctcacgtta ctcatctgca tgcattgcctg 180  
 atggtgagat actttcttat ttgtttgtta gatgcttcca agggggcgctg tctatcgcta 240  
 cctcctggc cgcaacatgc aagatgtccc acttcaaggt gtagctggctg gaatgatgtc 300  
 agtcccttat gacatgggtg gtctgccaat ccgcatgct gtgggacagc caatgcccat 360  
 tcaagctttg gccacggctc ttgcaaagtc tccccctgaa cagca 405

<210> 16927  
 <211> 200  
 <212> DNA  
 <213> Glycine max

<400> 16927

cttgtggctg agaagacgaa gatgaagctg acggaagctg cacaccctga agcattgatg 60  
 gcgtgctcca ccgtccatcc ccgttcagac gccacgtgaa gcggaacatg gcccgcacga 120  
 acaagacata ggagatgacg actgacgcca cgaaggacat cactgacaag atcgactgcc 180  
 attctcaact aaccattaca 200

<210> 16928  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 16928

acactctagc gtgacacaac ctattattcg tcgtcttacc cttcctttat aggctctata 60  
 acgggtcttaa agatgaatat tcaatctcag cacttagtct tttctctcaa ggaattttgg 120  
 gagcttttta caactataca caaaatttac aaaaagcatt ttacaaaaag aattaatcta 180  
 tagcttttta aaaaaacctt ggattctttt gtaagttttt gctttggatc ttcaaagctt 240  
 ctaatattta tagctctcat ctttaagcgt tcattatctc acaatggatg aacttcttca 300  
 ctttaagcttg cgtctaagtc ttatgatcga tggagcattc aatgcttaca ttaaatgcac 360  
 gtccctcttc atgcaaccaa accactttga gtggctttct tgtagagcac tgcatt 416

<210> 16929  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16929

tttcttctct ttcaattgag ctaaggaggt tggaaagcaa atgcagcata tgggaactca 60  
tattcatttg ggcctttgtg ttggtcaatg tatgtgggtc ttggtcttgc gatattcaag 120  
ggacatttat gatagaaaat gcatgttctt cttgtagatg acagaatgag cacagaacat 180  
cttctaattg aattaacttt cgatggtagc ctattatgaa agagtctcca caagaggcaa 240  
taaacttttag gtaaggcacc caaattctag agcctactga agaaaatggg gtctgcagta 300  
acaccaccgt ccttgacttc cataattgca aaatatgctg aaccgaccat tagt 354

<210> 16930

<211> 415

<212> DNA

<213> Glycine max

<400> 16930

tttgaagttt aaatgaaact tgtagaagaa gcttatagca tgatccattg gattattggt 60  
tatgatctaa ttaatgacca aatttgacac attgaatgac cttgatcagc tatgcgtagc 120  
cgtgccatcc aataccaaat gttatgtgct tcaacttttaa aaattttact caaaaaagtt 180  
aaaataaagt tttgccaaaa atggatattc ttactttata ccaaaactag taaattttat 240  
cctatatgcc ttgattacta tgctaactct cctaggatta gccataactt gagtaaactt 300  
ctcatagagc taaattacgc tgccactcat tgcacaatgc aatcttgtca cggatggaat 360  
tttcatttag acaattttca tatctctatc agttaagcta aacaaattat ttata 415

<210> 16931

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16931

agctttgtgc taatatgttc tattgacact ctttatttct gaacttcttc tttcacggca 60  
aagtacttca attccatatg cttagcaccg gtagagtact tgtcgttctt agaaaagaat 120  
attgctgcgg agttatcaca atacattttc agcggcctag caatactgtc gacaattcca 180  
agccctgaaa taaagtcttg caaccaatta gcctaaattg tagcctcaaa acatgctaca 240  
aattcagctt ccatgggtgga tgcagcaaca actgattggt ttgcactctt ccatgatatt 300

tctcctccgg ctaagagaaa tacaaagcca agagtggatt ntcttgtatc cacacatcca 360  
gcaaagtctg agtctgaata tccaatca 388

<210> 16932  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 16932  
tgccattggt tccaaatacc atcactaaca tcatatgaaa acgtgtgttt tacagctatg 60  
aaacactgac acagacacag acacgtggac atttgtaatg tccaaaatgt aggacacaca 120  
cacacaaaat taaataaaat aaaattacat aaaattaaat atgagcgata tgcataaaag 180  
atctaaattg aaaatcaaga tttatatatt tatcatcaca cacacacaca caaatatata 240  
attaaataaa ataaaattac ataaaattaa atatgagtga tatgcataaa agatccaaat 300  
tcaaaatcaa gatttatata tttattatca tctaaaaaga acttttccta tgataataag 360  
tcacaaaaaa tactaagaga cctcattata caatttgtag gctttgtttc tttacaaaca 420

<210> 16933  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 16933  
ttcttgcagc cattagaaga gaagagaaag aacatgtgat tagatgtatg actgaaaatg 60  
ctagttagtt tgtcagattg attgtgaagg aatgcattga ccgtatccca gtgagcgtgt 120  
gatccttaaa ttttaagaga aatgactatc atttaatact gatttttgca agaattctctg 180  
aagtatggac tgaatgcatg aattaaggat gatgaaggcc atgtttgatt gtgatagcca 240  
cttagccaaa aagctgacca cgtgcttgaa tgatttatcc cttgcaccca gtttgagctg 300  
aatgaattac taattgactg aaccttttagc ctatacagtg ttatctcctg ctaccttggt 360  
ttaggttgta agagagcatc atccact 387

<210> 16934  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 16934

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tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caattgttag tcgtggctat   60
acgagacatc ttgccaaaca aagtcagggtt aacgataact cgcctgtgct ttttcttcca  120
tgctatatgt agcaaagtca ttgatccagt aatgtttgat gagttggaaa atgaggccgc   180
aattatactg tgccaattgg agatgtatctt tccccctgct ttctttgaca tcatgattca  240
cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctgtttatc tacgggtggat  300
gtacccggtt gagcgataca tgaagatctt aaaaggggat acaaagaatc tatatcatcc  360
agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt tgtc       414

```

<210> 16935  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 16935

```

ttcttgtata atgtatagtt actgaataat tattgtcatg acaaggaaat cttaaataatg   60
caattgggtca cgcatacata tatatatata tatatatata tacacaatgt gtcaatgtga  120
agactacacc accacattct tgggtgcaaaa atagtatata cactgataac caaggaccct  180
tttgtttctt acttttgccct ttaattaagt gggcgtgccc tcccaaattt aaaaagataa  240
agttagcata tggtagcaaa atacccttac aaggcaaaaa agcagcacgg aaacaaccat  300
ataaaagaga agcatgccga cggcaaaatc aacgtggaca gaatcaagag agtgacacat  360
tattatgaag tca                                     373

```

<210> 16936  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 16936

```

tcaagaaaaa gatggcctct tcaaattcct tatttccgga agggaattct atcaatagac   60
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg  120
aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata ccaccacag  180
tagaaagagt ttcaatagat ggtagtcat caagtgaaag cataaccata gaaaaaccta  240

```

gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300  
 taataacatc tgccttagga atggatgaat atttcagggg ttcaaattgt aagagtgcga 360  
 aggaaatgtg ggacactctt cgattagcac atgaaggaac tacagatg 408

<210> 16937  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16937

ttgtatgcat ttacaatagg agccagtggc atagtccatg tactttctcta actctttctt 60  
 gtacaaaaca caagcatggc ctattgtgtt gtaaaccctg tctgccccat ataggttgat 120  
 cttaccaacc ctattctcct ttgggggttat gtactttcta atctcctcaa tgatgaaaaa 180  
 attgatcaaa tgatcctcct tcaactggga gctcgccctt tcatcaacct tgggaacccg 240  
 aatctgcctt agagcaacat taccactatg aagagggctg actatttgat cctctagaaa 300  
 ctccttgtcc aacatggcgc ctatgattgt ctccattact tgaacttttg actc 354

<210> 16938  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 16938

tgccagaata atgggttggg ttcttatcat tctgtgtagg ttggatcatc ttgtaagcct 60  
 tttgagtctc actagattct actcagcagg atttttcctc cacaatgaag atatatgcca 120  
 acacttctac aatctgaggg atgtttctga tggttttgat gtcaaactcat tctctgatag 180  
 agttggagaa gtgatagaca tgttggaagc tttgcaggcc aagcttgagt caaaagttca 240  
 agaaatggag aaaaacaaag gctccatggt ggacaagaag tttctagagg atcaaatagt 300  
 tagccctctt ctagtgctaa tgttgctcta aggcagattc ggggtcccaa ggttgatgaa 360  
 aggactaact tcacagtga gaggatcat ttgatc 396

<210> 16939  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        16939

```
ttctttaatt tttggacctt tagatgcaat ttcataagtc atgtgaatgc ttaaagttgt   60
ttgaattgaa ttggcctatt tgtttggtta aactaccaag gtgggtgcat tgcgcatgaa  120
ttgttgtaga atatctaatt ctttctttca aaataataca catggagtgg tgatctttat  180
tagttgtatg tatggtaaca cctacaatta ataaagacca cacaaaaatt ggttgacttc  240
ttggttgcta tacttgggat aactaaaata gtattgttat gtatttcatg caaaatattc  300
tttatgctaa attntacttg aatgtgcctt tgtaggtatg gcttcgaaga agctatctac  360
taaa                                                                    364
```

<210>        16940  
<211>        408  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        16940

```
ttgaaagtgt agttnttcat cttctcgcta agccattcta ctggcttagc gagcatccgc   60
taagcgcaac actcatgggc taagcacgac gaagactctg gaagaagata agttgtacag  120
gtttgctaag cgcaccactt catctcatta agcgcaccgc ttcagttcat ccgctaagag  180
agaaaggcac gcgcttagcc aaaattcact aatgtgcgct aagtgggtcca taattgcgct  240
aagcgcacga gcacgaacaa ggccacctat ttaagcgtga aatcagattt tagaggtgga  300
gtttggactg ggattcagag ctttgcattg cttagagttt tagagagaga aaggtccaag  360
ctttagagag ttttgagagt ttttgatgtg tgaagatctg cagagacc                408
```

<210>        16941  
<211>        368  
<212>        DNA  
<213>        Glycine max

<400>        16941

```
tattcttgtg agcattctct ccatagatca tatcattctt catttaggtg atcatgaagg   60
tcagagagat ggtatagctc aatttgtaag ctttctagta ggctatacaa cttatgaaga  120
tattctaadc agtcagattt atttttgttt acatattgac tcattattaa agaggagctt  180
```

tgtggtctct attttaagag cttcaaacgc atcacacact tgagtggaaa actattaaga 240  
 actatatact attactccat gttacccttg aatctgatta tgatcactgg agatgttgaa 300  
 gaaatatatt cttgactctg ataatgttta cacattatgg atgaattagg aataagctca 360  
 tgatatgt 368

<210> 16942  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 16942

tgctatgtgc cccctaattg aggaacctaa tagatatgat ccaaaagtcc acttctagtg 60  
 ataactccaa ggggtggttt taagtaactc tactggtttc taaagatatc atcctcttaa 120  
 gtaatacatt gtggcaataa gaactatcag caacaatgca ccactaaaag aggaaaactc 180  
 tagataaggc ttcactgtca tcaagcgagt cggagaccca gcatgaccat agattgacct 240  
 ccactcctta cgactcacat agaccgggtg ataaggccta atatctcaat gtgctgacga 300  
 agtgtacgtg ccatgtgtgt gtaaaacaaa tatttctaac tatcaatgta atcgatagac 360  
 aaacacacat caaacacaac aacatagaaa aggttatata caaatatgga ca 412

<210> 16943  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 16943

ttcttatgag cttacataac ttacacattc gttgatgggc acttaagatg agtacattca 60  
 cacttactca catacttatt tttatagtta ctcttctaac tttatatact tatttgagga 120  
 cgttatgctt tattgtacat gtatgccttt atgccgtcct tataacgatt attctttttt 180  
 aggaatttat cataatcaca tctatgacgt gtgtctgttt cagatttttag taaatacaac 240  
 attaathtag tatatctatt atattgatta aattcctgtt tttcatgtgt gcacggagga 300  
 tcattactaa ttatatatat tgatttgaac ggtcgaagtc ttttatttta taaattatct 360  
 ttcgtact 368



<210> 16944  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 16944

gaaagatgct gaatacatga cagtagtttt aaaaaaatg ctaaagggttc atacaacaac 60  
 ttcaaagaag caatgacgat ttaaaaaatg aacctaacct ttcaagttaa aaactacgat 120  
 atactattga agagtggagg cacaatcact aatcagcaat caattatagg ctaccaata 180  
 acaaattcaa gcatgatggt taagggtgaa cagaacaatt accctgcaac tgagctgagc 240  
 atacacgaag caataacaca ccaaccagtt acggtagagg tagtaatcgc aacatagtca 300  
 aagaaatcac gagactcaac cgagacacac gtgtgccaac aagtatcgac aagaacaac 359

<210> 16945  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16945

ttcttgaaga ttctgggaga atttcatctt tattggctat agctccttgt gagagagcta 60  
 tacacttcac aattggtata ccaggataga gatcattatc tgaaatgtgg ttatttataa 120  
 gcaggccttt tggatcggc aaactgacaa tgttgagtga gattgctctt actgcagtta 180  
 tttcaaagca tagtccaact tcatcaataa atgatcaaca aacacctagc acaccatcgt 240  
 cactgagctt tagctcttta tctccaaact taactccaat aaaaatgagg agtttgagtg 300  
 atatttatac catgtttaat tattattcta tggaacaatt taaccttgaa taagcacgta 360  
 atgaaatgct tggc 374

<210> 16946  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16946

cactatacac aactcaagct tcttgagaga acttanaata aaagtattaa gtttaattga 60  
 tcatatttat aagcgactat aattcatact atgacccttt atgcttcccc ctccctttta 120

tcacatagta acggtttgaa aacaaggggtt gattcaatgc tggaacaaac aagtcattctt 180  
 caccatcact tacatagttg attgctaagt ttttgttatg aagaaaagga agatccctta 240  
 tagcgtcgtc cttgaacaaa ccaacaaaaa aagtactaag gctgagcttc tttatcaagg 300  
 attactaggt aacacgcatt ccatggaaat ataaaatact ttgtcttctt atccatgtaa 360  
 tgtaaagcaa tagtaagaat 380

<210> 16947  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16947

agcttctcac tgtcaaagga acccctttgc attttttcac aatttccttt ccatctcca 60  
 ttagatttgg atattccttc tcttgacctt ccttaaatgc ccatctcaca aacagcgata 120  
 tacaattctc tggagaaagg ccctctaaaa cataagaggg aatagtgcc atcattgaag 180  
 caatggagtt acttcgcgtt gtcactatga ttntgcttcc cactgcacca acttttatta 240  
 aatttttcaa gtcaatccat tttgtataat catcattcca tatatcatcc aagaccagta 300  
 aaaatttctg aagagaaagc ttgtgtctaa gacgagtttg aagctgctca atatctaagc 360  
 tggatgat 367

<210> 16948  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 16948

tgactgttac ttgatgaatg tatgtcagct acatattctt tttcagcctt atattgcaga 60  
 acattatcat actgatcaac aaattgcttc agagttgtta gccggcttac atatccatca 120  
 aaaaatgcat gcatgctttc attgtgtgga ataatagaca ttccagccca gaactcacct 180  
 cttacaaagg aaggagccca gcatgtcttc tcacagaaca actctttcaa ccatttattg 240  
 tccttgaggt caaaatcctc cacaatcttc tttcatttct gctcaaattc acttattgga 300  
 tgtgtgtcat atacaacatt ctgcaaatga tctcttaagg actcgtaata acatttccat 360  
 ggattagttg ggga 374

<210> 16949  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 16949

tttcttatgc gcatattgcc ttactatcgt tcacttgccg aggacattct atcatctaga 60  
 aaaaatgcac ccatatgcag tcaaggtagc ttgggttacct agatgatata catgtactta 120  
 ctatgaggat ttgctattta catgacacac gcctacttgg ctgaatgtac atacatacat 180  
 actctaagca tttgggggta ccaaaaattg cacatgcgcg catattgata tgtctaacac 240  
 ccatacatat acaaacttca cgaagaatgt tgactaccta cacaatgagg tgctacattt 300  
 catgcttttt tttttaagat cttggctacc taaagcacca tgcaagatca tgcatt 355

<210> 16950  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16950

ntgccaaata aacaagttcc ctgtgttcga tacttggatc attccgtttt agttttacat 60  
 acttggcgac ccggtgcgct tgccggtata tcacttccct tttgatataa gtgtttgtaa 120  
 gtttaagaaa aaagaactgt gtggggaagc gaacaaagta tttttggtgc cgttgccggg 180  
 gaatttattt catttggaat gtttaggtca gtttgaaggc attattgatt catttttttt 240  
 ctttgattca ttgattattt ttgtgaatat ttagttactg cacaatttat tgctctttgg 300  
 aattgggttaa ctactattct gcttggtttg catgcaaaga aggtctgctg caagtgcatt 360  
 gatttccata gacttgaaaa ttaa 384

<210> 16951  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 16951

atctttaga atgggtagac atgatacatg tcagggtttg gtttggttca aggataaaaag 60

ggatgccccca cattatctcc atgacacaaa tgcaaaaatg atgatttgga aacttcatgc 120  
 aaaactgggc atgcatgcac ctatgcggac actcaagcgt caaattttta tggatcatgtg 180  
 atgctagggc tcaggattca tttcctctat tttagtcaac ccaatatttc caaaatatgc 240  
 tcttttatca atttatgcat ttatcctagt ccatttcggg cgtctgggga aatttcacag 300  
 cattcacctc tcagggtgtag acacattttt caaaaattgg ttatgatcaa tgaatttttt 360  
 tt 362

<210> 16952  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 16952  
 tactccgcac aatgagggcc ttttgggtat gaagtgtcta ttcctccttc taatgacgca 60  
 tggacactta tctctgaccc aactacaatt cgtgcgaaag gtcgggtcaaa atcaacaatg 120  
 ataaggaatg agatggattg ggtcaaacca tctgagcacc gacaaaatgt attacatgtg 180  
 gagccgaaga ccataacagg agtcgctgtc caatgcaatc taagcgcggg agttgttcaa 240  
 accattgatt tatgtatggt agtcgactca ctctgatttg ttttaagttct cttcaatgta 300  
 ttgaacttgc ggggttgaat caattcgtta gttataaaca ttacttattt a 351

<210> 16953  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 16953  
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 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240  
 gctatcacat cctatcataa caaagcaaag gctgaaaact ctgccaaaac accaaccaaa 300  
 aatcacaagt ttttccact caaagacccc aggaacaatt ccttcgatcc aatttggtta 360  
 cc 362

<210> 16954  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 16954

tataatatat cgagatgctc gaaattaatc atcggtagct cttgagaaaa tcaattggtc 60  
 ataatttatc acacggatgt ccgattcggg tgcataatat gtcgagacgc tcgaaattga 120  
 acaacggagg ctctcgagaa attcaaattg ctataacctt tcacacagat gttcgattca 180  
 ggagcatcac atatagagac gtacgaacaa cggatgcact cgagaaatac aaatgggtcat 240  
 aacttttcac accgagttcc cattcacgct catactatat tgatacgttt gaaattaaac 300  
 atcggaagct caacgagaaa ttcaaattgt cataactctt cacacggatg tccgattatg 360  
 gagaatcaca tatcaagatg ctcaaaattg accaacgaag ctct 404

<210> 16955  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 16955

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 atctaataca agtataatat gcatcaattt actttcccggt catcaaaatt tgagtttagtt 120  
 agaatgcaaa aataattttt agtattatgg agttgaccaa gattgtgtgg attttttgtg 180  
 atagaaatcc ttacagagct gtaagatatt ttaaaactcc tattattggg gtcaagtatc 240  
 ctgtgaatcc catatatgct agtgatctgc aatgaagcaa tttatatatt acacagcaag 300  
 caggaattca agatttaaaa atgtgaaata taacactttc tacaatgagt aatgacagcc 360  
 aacatc 366

<210> 16956  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16956

tccacttctc aatgtgagag ctctatatta tttctctttt taaccatac tgttcattat 60

taacattgaa ctttttgttt ttcttcaaga taaaaaaaaa tctcatgaaa ctttgctata 120  
atatactttg ttgatgcttt gtattccact attcatctgg agaaaacatt atatctatat 180  
tacctgggta acttatgaat gtgaatcatt ttatttcatt tcaggaaact aactttaagg 240  
aatggaggca agtggtgaca gaaattaacc gnttcacgaa agttgacaag ggcttttagtt 300  
tcaggcccat gcgttattgt gccacatttg atactcatcg agcttctctt ccttatgt 358

<210> 16957  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 16957

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aacacttttc ttcaatttat ttttattatc ctaaaaacaa tgtatttttg tttaaaataa 120  
attagattca tgttggttaa tgcatgtttt tgttgtttta cttttttata atcactgcat 180  
acgctaaaat tcttttataa ttaatctcgg aatgatgctc cactaaaagt caaatttggt 240  
cctagaaaag actcttgtea tgtgccttta tatattttcc tttttttcca gttttatatt 300  
attgagacat ggtgagggtg aatattaaaa cccaacaatt gttaatcgaa attttcgggt 360  
ttgatt 366

<210> 16958  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16958

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tctgtaggtt cgagcgaggg gtttccggta gtattgaaaa caatatggga caatgtgggt 120  
gtcgagggag cgatttccgg cagatttcac gcgggaggag aaagagaaga gcgatttcaa 180  
gcaggaggag aaagagaaga gcgagtgcaa ggttttcgag cgcgcacggt gtgaaatgtc 240  
aatgtttcaa cttataaaca taacaacatc ggttttttaa ggataaccga tgttaaataa 300  
atatagttaa catcggttgt ggcaaaacca atgttaacat cagatatgtt acatcgtgtt 360

tttataaaaa ccaa

374

<210> 16959

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16959

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catttgttgc ccaagtttca tgggtcttgca ggtgaagatc ctcataagca tcttaaggag 120  
ttccatattg tttgttccac catgaagccc cttgatgtcc aggaagatca tatctttcta 180  
aaggcttttc ctcatctct agaggggagtg aaaaaagatt ggttgtacta ccttgctccc 240  
agatccatct ccaactggga tgaccttaag agagtgttct tggagaaatt cttccttgca 300  
tctaagacca ctgccatcaa aaaagacatt tcangaaact taatggagag agcttgtatg 360  
agtactggg 369

<210> 16960

<211> 351

<212> DNA

<213> Glycine max

<400> 16960

ttgaatggac accacttcat tttggtcttc tttgtatact tcaccaaagtg ggttgaagtg 60  
ggtgcgtacg ccagtgtgac taggagtgtg gtggttaggt taatcaagaa agagataatc 120  
tgctgggtatg ggttaccag gaagattatc attgataatg ccaccaatct gaataataaa 180  
atgatgaaag aaatgtgtga ggatttcatg atccaacatc acaattctac tccttatggg 240  
cccaagatga atagggtagt tgaggctgct aacaagaaca tcaagaaatt agttagaaga 300  
ttaccgggtc atacaaggat tgacacaaga tgctcccttt tgcactacat g 351

<210> 16961

<211> 327

<212> DNA

<213> Glycine max

<400> 16961

ttcttctcgg tacatcacgg gcctcaatcg tacacccatg tcaaaagtta tggccctctg 60

aattggacca tagcttcctt gttagggtttc gagcgtctcg atatattgtg tctgaatcgg 120  
 acatccgagt gaaaagttat gacaatttta atttctcgag aacttccatt attcaatgcc 180  
 gagcgtctct atatatcatg ggcgccaatc atacactcat gtcaaaaagta atggccgtct 240  
 gaatttctcc agaacttcca ttattcaatc tccagcgtct ctgtatatat tgctactgaa 300  
 tctgacattc gactgaaaag ttatgac 327

<210> 16962  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 16962

cggtgcttga ttgtgtcgtt cgtcgacacc ccgggctcat ataatacgcc tgcattctatc 60  
 ccgcacctct atacgacttg cgagtagtgt agtgtgacca gggttcagccc cttgagctct 120  
 tctctctcta taaaaagctc ttacgaatat tgttgacagt gaagaagatc caccgccaag 180  
 cgctttcaga acgtttacgt gagtgaatgc tcgaaggatc tctaccgttc ttcggagatc 240  
 tttattcgcc ctacatcgac cctcagtgtc caacgggttg accacctcga accaagctgt 300  
 aacacttcat tgtatgtacc cgcagtggtc cacacttggg ttcattgtata tttactctcg 360  
 ggtgcattta ctgtttatac cgccttttga cgagcttaag ccgttttatt taagtcattt 420  
 ctcgcttaac ctccaataaa ctaaattcccc accgattgtg tgaa 464

<210> 16963  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 16963

ttcttgctgg cgaagacgtg ctgatgcctt ctgattgagc ttgaacttgg gcctgagtca 60  
 acccctgacc ctgggatctt cttctccttc tcctctataa aagcacggaa tactcgatat 120  
 ggcagatata cataccgatt ctgaaagcgg gaacgatttg cgacaattat ccgccaatt 180  
 ctctcatcgc caaatgtcac cctctttcag acaattttcc ggcgcatatg gaaatccctc 240  
 gccggacatt tacgggtgcc ctgcctgtac actcaacaat ccattattgc tccgcatctc 300  
 catctccaac tacatctaca tctcgaacgc tacttagcta gctaggggtt atg 353



<210> 16964  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<400> 16964

ttcctacaat aatggggcat tcattattgc ttttttatat ggagagaaag tggcctccaa 60  
 gaggttggtg atgatgttgc tctctgagtt gatagcatgc aactgatgat ggaagttgcg 120  
 gcttggtgac gatgatatgg tggcaaccat acctgaaaga aatcaatggt gttggtcata 180  
 ac 182

<210> 16965  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 16965

atcttatcat atattcattg ttggaacgcc tacatttgcc aactccaag ttggtagccc 60  
 tggacatgag gaggggtgct ggaaagtcac cttaattgta gtcacccttg gccacacctta 120  
 gttgccggtt cttcgggctg ccttgattgc agtggtgaaa ggggggtgtt agtcctacat 180  
 ggactagata tatgacttaa ataaagctaa taaagtttgg acaatcctca ccttaaatag 240  
 attgatatcc tttctctcat ctttcaacac tatttctctc tctctctctc tctcttagtt 300  
 tctcttaatt ctactaaaat cattttcagc cacaatagat catagtcctt ggtcaattgc 360  
 tctaaattca 370

<210> 16966  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16966

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 aaccaagtag gagggggcaa ccttataaag aggtattctc tggtgtaatg tcattttaat 120  
 aagttggttg aagaaatact taagacataa taagtacaat aaaataataa tgtgaactgt 180

ctacacccaa aagacaaaaa ttaaagatgg ccagaaagtt ctattatattt tcttgtgtat 240  
cacataaagt aaccagttat ccatcaacta agatatcttt tgaagctaag aatcatagtt 300  
tgagtntaag ggtgatttat ttatttatatt tcttctttgc gatggactag gtggtcacat 360  
caagatactg ggttttgtct aaccatattg ggtgaagtat aacgattctc agct 414

<210> 16967  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 16967

agcttcttat tcaaggcaca ttcttgggtg tgaagctcct tcttccatgg cttattccct 60  
agtggatggg gcctcctctc acctcttctc ttttgtcttt cgctgtatct ccattgtgaa 120  
aaattaccat tgatggactt cattgaagct caaagatcta gcctccatag tgtggaagca 180  
atgacttcca agattatattt gatgatgcca aagaatcaag agttaagcaa gttccaaaga 240  
ataaggagtc aaaaagcttc aagaacaatc aagtttcaag attcaagatt caagaacaat 300  
caagtttcaa gactcaagat tcaagaacaa tcaagatcaa gattcaagaa tcaagagaag 360  
actcaatcaa gt 372

<210> 16968  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16968

tattgcatcg attatgtcgc ttagcgagat ctgcttatta tattacctgc aactcttcgc 60  
acgcatattg ctgccaaaat ctgagcttaa cggcatggaa tgggtgcttaa ctcaatcaaa 120  
atgaagtttg gccgcaagaa gttcaactta gccaccatga ttggcgctca gctctatgaa 180  
cttcagttct ggccgtaaag aattgggctt tgtgacactt agtcgcactt agccaaggat 240  
aatgtatcgc ttaacggntt ggctgtcngc ttaccgaatt cagatcgaat tgaagttggc 300  
ttagctcagc cttggctagc ttaacggacc aaatcatcct cagatgccaa ggctcgagcgc 360  
taagcgct 368

<210> 16969  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 16969

ttcttgttac tattgaagaa gtttatcatg ttgtttcctc tatgaaatcg tataaggcac 60  
 ctgaacctga tgggtattag aaaatatttt ttaagatatt ttgggaaaag gttggagatg 120  
 atgtttggag atttgttaga gaagcgattc ataaggatg tttgatgtgt aggctgctaa 180  
 gactattatt gtcctaattc ctaaagggtga ttctcaaaaa acatttagag tgtgttttggg 240  
 tagagaattt taacaaagga aagtaattta tcagagaatt taaatttttc taatctagaa 300  
 ttcattgttt ggatgttttt tttatgaaga atttaaattt ttggaatttt aaaacggaat 360  
 ttcaaacaac taaaaa 376

<210> 16970  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16970

ntgcggattt ggtcttcgcc agtgaaagga tcgatgtggg tccgaataga ggcacatttg 60  
 atcatcctac tangacgact gagaaaactg gggcaattga agaggggtgag aaagagggag 120  
 aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgc 180  
 cattactcag tcaataacaa acctcctcct taccaccac gcagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaag tctgtctacc gcacttccaa tgacgaagac cacctttagc 300  
 acaaaccata aaaaaaaaaa aaacaccaac aaaaaggaat tttgcagcaa aaagcttgta 360  
 gggttcaccc caaattccgt ggtcatatgc taaacttgat 400

<210> 16971  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 16971

ttcttctaaa ggatgtgagc ttatttatga gaggggtgta tgtagctaag ctctagcttc 60

tcaaggaagc tatctcaaag aagcttatca tagaagtatt ctcaagaaag cttctcaagg 120  
aagctaccta ctctataaat agaagcatgt gtaacacttg ctgaaacttt gatgaatgag 180  
agtcttgtga gacacaactc aaagttcaac ttctctacct ttttcttcct tcaatttcga 240  
gctccccctc tctctttctc tccctctttc ttttcctcgg ctgaagcatc ctctacaagc 300  
ttcttataca aggctcatct tgggtggcgaa gtccttctt ctatgg 346

<210> 16972  
<211> 305  
<212> DNA  
<213> Glycine max

<400> 16972

aagagaaatt caacgccaaag tccaattttt gaaaccatat atattgtcat ataacataat 60  
cactttatta gaagcgcata agacaacata ctacatggc ccctgtattt gtgagctcat 120  
aggaaatcaa gcaagggcta ccaagaatcc ttgttgc tca acataattga cgaaagtcgg 180  
acaaggaaat gtggcattaa atgggtcaaa tcaaccccaa taaaaattt cattactcta 240  
agcacattgc aaacaaaagc aatccttaat tacaatccag ggcagatggt atttctataa 300  
caaaa 305

<210> 16973  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 16973

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aaatattgac ctaattagca ttatagttcc tgaataatga tagtggttctt ttacattga 120  
taaatgtaca tatttttttt ctccatatct tacactacat acttttttatt ctatatattg 180  
cactatcttt tatttataat tctaagctaa aggttatatt tttcgtttat acattattac 240  
tacgtaaaat aacattatta cacaaattaa attatttgcc atatatttac tatatactgc 300  
acacattttg ttggtagttt aagtgaatcc atactcaatc attacatgtc ttaagtttga 360  
agtga 365

<210> 16974

<211> 387  
 <212> DNA  
 <213> Glycine max

<400> 16974

actgagttgc atgcatatTTT ttacCTTTTT tttttacaca atatcatcta c gatggcaat 60  
 cggtacatat ttctctactt ctcaactaat tggatgctgt catcctaccc cctctctgaa 120  
 tctttacaag cacaagatct aatatggggc ctagagtctc aactcacaac tgatgtatgt 180  
 acgaaaatat ccagttttac aatcttaata tctactagat tcacaaccga ggaggaaaag 240  
 taactccctt tccccagtga ccttgc atgc gtaaccagta tgcccatcat aaacgc atgt 300  
 gattcatgcc ttgtgtatgt gctgtgccct acaacttgcg gaattggggg taattgtgga 360  
 cgtaaataTc cactttaaaa ttaaaat 387

<210> 16975  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 16975

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 tggatccttg gcgtgaggat tccttatatc gaaagtcttc ttggcg gatg gtccacgcgg 120  
 cagcgtgagg atcccttgca tcaaaatcct tcttggtaga aaggtcacgc aacatgtccc 180  
 atgggtggag cgggtggtgca agtatctaga gcatgtgggc tttaatggcc accttg gaaa 240  
 tactcatgga tgaaaatggc ttctgctaga gggggagact accatctgga tgacactcac 300  
 actttatggg gagattatag gagtacacgt gtgaggtaaa gtctcacatc tcataagaat 360  
 gagaaagtta aa 372

<210> 16976  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16976

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 tcacatgcgt gccttgataa aatttctata actgtaaagc caatgagggt ctctttcttg 120

ccagtaatag tcttcacaaa ctcttctca gggttcttag ccaacacatc atattcagga 180  
gaccctttct caagcataaa tctcctgcaa ataattggcc tattcaggat taaacctcca 240  
tatggatact gtccaaggta acagcaacat gaagagtga agcaatccat ataagggtag 300  
cggatgcttc aaccaactct tcccagggtt gcattctgtg ccacca 346

<210> 16977  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 16977

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cacgaaattc aaggaataga agaggagag aagtataact cttgaagtat gactcacaag 120  
actctcattc atctaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180  
cttccttgag aagctttctt gagaaaactt ccttgagaag ctagagctta tctacacaca 240  
cccctctcat aactaagctc acctccttga gaagctttct taagaagatt cctaaagaag 300  
ctagagctta gctacacata cctctctaag agctaagctc acctccttga gatgagaagc 360  
tagag 365

<210> 16978  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 16978

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ctaattacat gcatgaaata agaataaaaa atagaaaaag ggaaagaaaa gctgggtggc 120  
ctcccagtaa gcgctctttt aacgtcacta gcttgacgca tcgccctgtt atccatgatc 180  
caagagagtt cctacttcaa ggaccttctt ctcaagtctc ttttctcca tcacatgcac 240  
tttaaaacaa acattttggc taggcggatc tttgtcctcc tggaacatat caaagctgat 300  
cttctgatct tctatgcca tctatagaat cttcttccc atgtccatta tgaagcttgc 360  
agtaaaca 368

<210> 16979  
 <211> 698  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16979

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canntaagng tctgagatan tcncacgcca tcgagtcacc tctcgaggag tactccccn 120
nnctagcaaa ggcgcgnnacg catgttggtc tactnantgg catatgtctc tgatctatac 180
aggcntncat atgtaacagt aggcgatgta tacgccgcat attctacgta tcagatagtg 240
tgaggactac tatggttggtc tctcgattta gcgcagtgac gcgcaccatg tatattgtct 300
gagtcatcac atcctagctg tcaccgatgc tacgatattt gttacngttc acagcacgct 360
tgtgtatatg acgatagacc tacatcgagt agcagaataa tctcgtacga taataangct 420
tcattataca tactatgtca cacatacacg tgggtgtgata gatgtctcta atactaggta 480
aagacacagt ttcttcaaac cagctctgcy atttgagaga gacctttaca ctaaatagat 540
ctctaccaca tctccttgcy gaaaagcgtc gtattactca attagataga ggttgcttag 600
tgcatacgta acattgactt gtgctgagat ggatagacta attattacat aggagagagt 660
gtcaacttag ataggctcca tacaatctat cgcatacg 698
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<210> 16980  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 16980

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aaaactatct gagagattac ggcgcgaagt atattcttcc tcgtcgacca tgcaaccctc 120
atcgaagtct tgagcatacc ttaaagggtc atacccaag ccaccaacgg gatcgaaagt 180
gcttggttctc cttggcaagg aagcttcaat ttgagacacc ccagacccaa agctagcctc 240
gtctaagaga tgatgaacta ttctccatca cttcgagaga gctcatggaa tgaaagtaca 300
acaactcaat atctaagtct ttttgaagcc tttcttattc actacttttc actc 354
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<210> 16981

<211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16981

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 ttcgagatcc gttccagacg acctctataa tgccatgttg cacgctttct ttactcgcat 120  
 gtcctgacac tgggcgtacc tgatagttag cctggggacta ataaagggga attctctaga 180  
 ggtgcaagag aagatgatgt ctcttctttg gtccagaaaa agcgactaa ggcaccggta 240  
 gtttgtaatt gtgactttga taatactctt agaaacttaa tgggaacaac ggctatatag 300  
 acggttcgaa tgctgaccat atcataacgc gactgatgac atcagacaac gtatgagttc 360  
 gagcacactc cacatgtata gcctcttgca tttgttggat gagattggct gacctctatt 420  
 tggaggaact cgcaaatgaa tgatactacc tttatcatac tgggag 466

<210> 16982  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 16982

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 ccaatcttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ttttattgaa 120  
 gcaatagact taagtatttg ggaagccaca taaatagggc catatatacc taccatagta 180  
 gaaagaatta caatagatgg tagcacatca agtgaaagca taacaatata aaaatctaga 240  
 catagatggg ctgaagagga tagaagatga gttcaatata atctaaaagc caaatacata 300  
 ataacatctg ccctgagaat ggatgaatat ttcacggttt ccaattgcaa caatgctaaa 360  
 gagatgtggg acactctaca attaacacat g 391

<210> 16983  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 16983



ttcttgcaca caagattctc cttgcctggc acctcnaaac cttcaggttg ggtcatattg 60  
atgtcttctc ctaaattccc atgcaagaat gcagttttta catctaacta ctccaagtga 120  
agattctctg cagctacaat actcagaata actctgatgg tagtcatctt tacaactgga 180  
gagaagattt ctgtgaaatc aattccttgt ttctgctgaa accttttcac cacaagtctc 240  
tccttgatc ttcttctatc gtgggatttt tcctttaacc tatagactca cctattctgt 300  
aacgctgtct ttcttctat aaatttagtt aaagaccacg tcttattctt ttgaaggggt 360  
gtcatct 367

<210> 16984  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 16984

gtgcataccc caaggatcca ttaggatttt acttgtgaaa gagagccatg aggggtgggct 60  
catgggccac tttgggatag acaagaccct tgtcttactc aaagaaaagt tttattggcc 120  
ccatatgaag aaagatgtcc ataagcattg cactagggtg gtggcttggt tacaagccaa 180  
gtctagggtg atgcctcatg ggctatacac acccttaacc atcccagctg caccttgggt 240  
agacattagt atggactttg tccttgggct tcctagaacc caaagagggt tagactctat 300  
ctttgtggtg gtggataggt ttagcatgat ggcacacttt ataccatgcc acaagatgga 360  
tgatgcgttc cacatctcaa aactcttt 388

<210> 16985  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 16985

tgcttcaaca taagccacgg ttcaaataag acatttaggt taagggttag ggcattactt 60  
goggtttgtc tataataaaa tcaaatgaca tctattaata tgctgtccc aaccaactgt 120  
ctcagatttt gtgcatatga catactgtgt tcttgcttca gttccacgta ttacaacagt 180  
ttactagaaa atatcattga cattaagggtc cagagcaaaa aatgcacatg cttttatata 240  
aaagtgtccc cctcctccct ctctctttta gtaaaagaga gttatatcca atattgttga 300

attcagttcg tgaatactaa cagacaatat gcaattaatc aattatacta ctt 353

<210> 16986  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16986

tatcaacatc aaacttggag aaatatntct ttggttctag acatgagaag catcaagtat 60  
 aatgttactt cctcactaaa gcggtgatct atctccacac atattttatc aatagcaaca 120  
 taaaaaatct ttgcacggta atgatgaaga ttagtgatag tcatcccttc tgctcttgaa 180  
 cgaccccgca cggggatttc gtcattcata tttggtaccg gaatactttt agctacacaa 240  
 aatacttggg cattggcaaa aaaatattcc agccactctc tctcattgtg cccaaccgag 300  
 ctttgacaac atcaactaat tgcattggcat tcacagtatt aagaaccttt tcttgcaata 360  
 catt 364

<210> 16987  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 16987

ctttcactcg catgtccgat tcaagcgcgt agcgtatcga gacgctagaa atctaacaaa 60  
 ggaagctctc gagaaattca aatgggtcata acttttctact cgcattgtccg attcaggcgc 120  
 ataacatata gagacgcttg aaattgaaca actgattttc tcgagaaatt caaatgggtca 180  
 taacttttaa ctcgcatgtc cgattcaagc gcataacata tcgagacgct cgaaattgaa 240  
 caacggatgt tctcgagaaa ttcaaattgt cataactttt cactctcatg tgcgattcag 300  
 gcgaataact tatcgagacg ctcganattg aacaacggaa gctctcgaga tattcaaa 358

<210> 16988  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 16988

ttacagcaga ttttagtaat gaccactaa ccttttttaa aataacttaa tgccattaac 60  
ctaggggaatt aaaaaaactt aatggctagt gtaactgaaa ttgtggcaac caaaagtcac 120  
ccccaacagc caacaagtca gccaccattt ggtctcccaa aaggctgatg cctatgttgc 180  
caattgggcc cttattacaa cttgaactaa acctaactaa agccctttta gttgattaac 240  
ccaaaacata tttttgtca gccaaacttta caaggattgg gccattattt agacaaaacta 300  
aacactctaa aattgaaaca aagtgggtgc atttatcct cctccatttg ggccatgata 360  
caactcac 368

<210> 16989  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 16989

agcttattta gcctatagtc taaaatactc tgtcagggt acctccttat ctgggggcat 60  
cctgctcttt tcttataaac ctcacaccag aatcccatgc ttccaatgtg gggctcaagt 120  
accatacctt gcaattgtaa cctaacaaaa cctatcaatc tgctgctgtg tttagaaaact 180  
ccttcacaat caactatcta caagcttaat ccagctaaga tcaattgaaa ttaaataccaa 240  
agagtaaaac cataacttcg gagccataat gtctttcaaa tagcacctgt aagtcagtat 300  
ctgggtctgtc tacatcattg atttaaggat tttcccaca ccaccaacat tccacagctt 360  
agccatacat ttaa 374

<210> 16990  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 16990

tgcggtcgcg gtgttcggcg gtggatgttg aggctgcgcg ttggatagga aagagcggcg 60  
tgcatggctg ctctccatt tgggaagaat atatgtgcct atgtaataat ggatttggcg 120  
ctaactacgg tcttctgtt cccttcacgg acgtggaaac tctgccacag tgccacagta 180  
tctcggctnt acaaaatatt aaaattgtaa tttcaaaacc atattatctc tgttctatta 240  
taattaanaa aaatatgcca aaaatagtga tcattttaat tctttaatat accattactt 300

atctttttct actcatatga tgaatgttat aaaagtgttt atgtttatTT ttataaaaaca 360  
gctctaaatg attttatttt gagatgggga aat 393

<210> 16991  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 16991

tttttattgc tgcttaaagc atgtgtgata tacaaaatct gaagatccta atgagtgggtg 60  
aatttgatat gaaagatcta ggggctgcaa agaaaatctt aggaatggag atctataggg 120  
atagaactca gaaaaggcta tttttgtctc aaaaggatta cattcagaag atacttgtga 180  
ggtttggaat ggctaactct aaacctatca gcaactccct ttcagaaaaa gagaagttgt 240  
ctgttatgat aaagattcaa gctcaggctg atcaggatta tatgtcaaag gtttcatact 300  
caagtgttgt tggcagtctc atgtatgcca tggctctgcac aagacctgac cttgcttatg 360  
ctgttagcat ggtc 374

<210> 16992  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 16992

tactatgact tatttttaac agcttacaat ttacttatTT atgatcaatt aacgctaagc 60  
aattgtcttg tacggggggt ttctgtgaag cttttaaacg tcttacattg acaattgcat 120  
gtattatctg ttggtaccgt aatattaaaa ggtttcttat attagacgtg ccacctaaaa 180  
caactcattt attcaatatt aatgatttgg ttaccctcga tacaatttac tcaattatga 240  
ccaattaaag gctagcaatt gtctgctacg gtgttttttg tgaagctttt agacgtctta 300  
cattgacaat tgcatgtatc atctgttgct accgcaatat taaaggctc ttatattaga 360  
cgtgccacta aaaacaactc atttattcaa ta 392

<210> 16993  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 16993

atcttttacag cttatttttag tattttaccca ctaacctaga attaaaataa cttaatgcc 60  
ttaacctaag gaattaaaaa aaaacttaat ggctgagtgt aactgaaatt gtggcaacca 120  
aaagtcaccc ccaacagcca ataagtcagc caccatttgg tctcccaaaa ggctgatgcc 180  
taggttgcca attgggccct tattacaact tgaactaaac ctaactaaag cccttttagt 240  
tgattaaccc aaaacatatt tttggtcagc caactttaga gggattgggc cattatttag 300  
acaaactaaa cactctaaaa ttgaaacaaa gtggtgtcat ttagtcctcc tccatttggg 360  
ccatgatata actcacaac 379

<210> 16994

<211> 387

<212> DNA

<213> Glycine max

<400> 16994

tttaaccttg acttggtaga acctcttgcc ggtttgattt gttcccatgc ttgctaaagt 60  
gagacaaaag ctggtgcaaa tcaaaactcc gatatctcat ggggtggaatg gatgaatgca 120  
tgaaggaatg catataacac agatgtaatc taggaatgcg ggggtccggg gaattcgtcc 180  
ccttcttaga cacaatgtct aggggtagca aagtgcccc aactacgttt ttaagaaggc 240  
gacacggacc ctccgttggt ttgtatacag aagggatcaa gacagaaccc atatgcatg 300  
cctatgcaaa agacacaatg cgggaatgta cacagtatga taatattcac tgaacataag 360  
caaaagggta tatgatactt atgcatg 387

<210> 16995

<211> 377

<212> DNA

<213> Glycine max

<400> 16995

ttcttttagaa ttcatTTaaa agatcgtgta gtttttcatc attctttcat taattataag 60  
tcttcgtagt ttgcatTTga tgttctttta taaacataac cacaacctct cttaggatct 120  
taaggtgtta cactttcatt ttgggttaaT aagttagata catcattgcc tttatgctac 180  
tgtattttct acttgcaaaa acttgctagg ctatgaatgg aggaacaaat cataggacat 240

aacctttaaa attgtgtgta acttttcgtg gtttaagtgt ggtttctcct aatcaacgtt 300  
 ttaaattgca gttacagttg tgttttgatc cctgtctcta tttctatctg ataaaaataa 360  
 gtaaataaca cataaaa 377

<210> 16996  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 16996

ttgaattcat tatatgcacc cttaggggtc cattctttct ttgtatgttg acatcttcat 60  
 ctctgtact ttcagtattc tttttcttca ttttaagcga gtttcgaccg atcgtttaag 120  
 ctgtaatctc agttaatcaa tgttaaaatg aattttgacc gatcgtttgc gttgtaatct 180  
 catttaatca cctttaaaat aaaattcaac cgatcgttta tgctataacc tcggttaatc 240  
 atcaaaaagg caagtgtcaa ccggacattt gctttgaaag ttctctttta atgagttgag 300  
 aaataaccaa gtgaaactaa ggctaaaatc aatcacaaat caagctctgc ccacaaaagg 360  
 tcatttgaac cgtttaaggt ccaaccctta at 392

<210> 16997  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 16997

ttcttgtagg gttaaagtct cacttattgt cacgtgctca tgcaacaatt gttatccgtg 60  
 gctatacgag acatcttgcc aaacaaagtc aagttcacga taactcgcct gtgctttttc 120  
 ttccatgcta tatgtagcaa agtgattgat ccagtaatgt ttgatgagct ggaaaatgaa 180  
 gccgcaatta tattgtgtca gttggagatg tattctcccc ctgctttctt tgacatcatg 240  
 attcacttga ttgtgcatct agtcagagaa atcaaagtgt gtggctcctgt ttatctacag 300  
 tggatgtacc cggttgagcg atacatgaag atcttaaaag ggtatgcaaa gaatctatat 360  
 catccgaaag catctat 377

<210> 16998  
 <211> 321

<212> DNA  
<213> Glycine max

<400> 16998

gaacgaggct gaagaagctg ctgctcatgt tcttcaagat tctgtggaga ataatttatc 60  
tcattctcat tcgtcacaag atagagacat ggaattggtg gtaaataatt gtcacaacac 120  
agtacttgta tttcaacctt agttgttgca gactccatt gttatatatt acaattattc 180  
atgtttggca tctgcatgga cggccctgca accgttgctc cagcaataac gctgcataac 240  
cttgctataa cgagagccaa gcaaggacg gttatgacgc agcataaata aaactgaaga 300  
cccatctttt gttgcatttt g 321

<210> 16999  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 16999

ttgcatgcat tctttgagcc aaaatcctga ctcaccataa accttgaccc agggtgagaa 60  
tgtcaatcct taccctcgga agcaaaaaaa gaatagaggg gaaatttcca atcaaagaaa 120  
aagagaagga aaatttccaa tgaaagcaaa aaaagaaaag aaggaaaatt cccaatcaa 180  
agagtgggag aaagcaaaaa gaaaagaaa gaaaattccc aatcaaagaa tgggagaaa 240  
taaaaaaagg aagaagaaga aggaagaaa gctcctgac aaggatcgaa agaaaacaga 300  
agatatgtgc agagaggtct ttggaccgga caatatctga acaatacaga attgccacca 360  
aatgaacgaa aaaag 375

<210> 17000  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17000

ntgttagttt ccaccaaaga actaagcttt tcagttttga gtagactctc ttttcaatca 60  
tgttcttgta tatgcaaaac tcgaatatga gatgctgggt aatggatctc aacttcgntt 120  
cattgaacc aacataatgt tggttgagat tcatggtttg aatttatttc tagactgaaa 180

aatttataaaa gaattataaaa tataaaaatta aaacatctat taattaagat attaaatttt 240  
attgaaaaaa ttaaacaagt tcaggtatac atgaataata tctagaatat taataattgg 300  
ttctattact gtacctttat aataaatagt caaagacatg tccaaacaaa tggtttttat 360  
gacgaataat actactcatt taatccaata ataaatatta attac 405

<210> 17001  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 17001

tgcattgtctt caacatctga ccacttccag ggtgctggaa ctacttcaca tggattttgat 60  
ggggcctatg caagttgaaa gccttggagg aaagaggtat gcctatgttg ttgtggatga 120  
tttctccaga ttacctggg taaactttat cagagagaaa tcagaaacct ttgaagtatt 180  
caaagagttg agtctaagac ttcaaagaga gaaagactgt gtcattcaaga gaatcacgag 240  
tgaccatggc agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat 300  
cactcatgag ttctctgcag ccattacacc acaacagaat gggatagttg agaggaaaaa 360  
caggaccttg c 371

<210> 17002  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 17002

taaacattca atttcgaggc tctcgatata ttacggtact taatcaagca tccaagaaaa 60  
aatttattgt cgtttgaatt tgctcagaga ttcaacattc aatttcgagc gtctcgatat 120  
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctccgag 180  
cttcaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaga catccgagta 240  
aaaagctatt gtcggttgaa ttgctcaga gattcaacat tgaatttcga gggctctgat 300  
atcttacggg actcaatcag acatccgagt gaataggtat tggcgtttga attggctcag 360

<210> 17003  
<211> 369  
<212> DNA



<213> Glycine max

<400> 17003

ttcttgggaa aattagttat tggcccataa cttgagaagg catattttac tatttttagaa 60  
ctctaagtag taagtataaa tctagggatt gcatctttaa ataattttcc aagttcttgt 120  
taaataatttg ttagatggat ctaattaaaa aaaatattag ttcaagaacc tattaataaa 180  
gtaaactatc aacctgatcc ctgaataatt tgaaattctc aattagggtc ctataacttaa 240  
acgaacccta atgaaaatgt tgccaaggat ccaattagaa ataatttaca tgtttagggt 300  
tctaaatcta attacagact tttaaaagta caggaactta tctaaaatcc ctaaaatagt 360  
tcagaaacc 369

<210> 17004

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17004

acatcgctac acaattatng taactgtaca aaccnggana gtacggatga cangtancnc 60  
acaaccacca acgcagagat gatacgagac atcacaacca caaacatata aaaactcaag 120  
ccacgcgagg caacgacaag caacaaattg ttccttttga ctacgacact ccaaccggag 180  
aaagagcgaa aaacagaacc gaacgcccgc accgacaatg acgcaaccgg cacgacgcac 240  
tccgagaaac cgaccaccaa caaacggcga gcacacacac ggacgcgcgg aaggccggcg 300  
gacatcgacc acctcgaaca caccacgcac aagacaaaacc gaccacgcgg acgcctgaac 360  
ggacagacct acgcaagaag cgcgcaacga acaccgcga tgcaacacaa cgcaaacgaa 420  
cagcgaacag cgtacagcaa cgcactgcag gagagcacac cgcacacaga acaaaccgcc 480  
gcgagagaag acacacacga gacagaaacg ctgcgcccga atagagcggg cggaacggaa 540  
acgagtgtcta caggcaccaa cgacaacaac tacccg 576

<210> 17005

<211> 370

<212> DNA

<213> Glycine max

<400> 17005

atcttcgata ttgttctaag cactgtcggc ccaaagggag aaagattaag atgaccctca 60  
atccattatt cataactcca ttgattatTT ttatttaaga actttaaaga aatccatttt 120  
gtatttttat ttaacaacta caaggaagag aagatgaaga atgcatggat tgcacttttt 180  
gtgcaaccac atgttttttt atcaagaaat tcacacagct gttggaaagg aaacgaaaga 240  
aattccactt accattattg aaagaactaa tgcagttctg atagtattat aaaagcgaag 300  
atcttataag agaatgaaat ctttttggag tgctataata tggtggtaga attattccta 360  
catatgacat 370

<210> 17006  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 17006  
tgaagtgaga aagcgtggaa gagtcagtct tccttctttt attcgttgac cacagagtgg 60  
tacctggaga tatgtcgcga gggtaagag accttgggga cgtcagatgg ggtgctattg 120  
cccaaaacca agcttgacca atcccgacc aaccgggaca tagtcagtca gtgagaacct 180  
gtgatgtacc taaacaggtg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240  
agcacggagg cttgtgtggt ggctggccag ctatggatct tgagtgatat ttggaatatg 300  
gcctctggta gtcgattacc aaggggtgtg aatccattac aaggtttata aatgaagaca 360  
ggaagttaag atggcctcta gtaatcga 388

<210> 17007  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 17007  
tgcattcttg cccagagaat gagtccacgg aggaaatgct taccacctca aaagactgga 60  
aagcggtttc taatgactcc tctgcggctt ccacataagg catagaggac gggcagctca 120  
ccaagaggtc ttctcgcct gacacgatga ccaaagccc ctccactacg aatttcaact 180  
tttgggtggag tgtagaggga acaactccca ctgagctgat ccacgggcgc cccaacagac 240  
agctgtaggg ggggttaata tccattatTT ggaaggtgac ttgacagggtg tgagggccta 300

tttgtactga gagatcgatc tctcccctaa cctctcggcg ggtgccgtca aaggcatgaa 360  
ccaccattga ac 372

<210> 17008  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 17008

ttgagccaaa atcttgactc accgtatatc ttgatccggg tgagaatgtc aatccttacc 60  
ctcgggaagca aaaaaaagaa gagaaggaaa atttccaatc aaaggaaaaa agagaggaaa 120  
ggaaattccc aatcaaagag tgggagaaaag caaatagaaa agaaagaaaa ttcctaataca 180  
aagaatggga gaaagaaaaa aagagagaag gagaagaagg aaagaaagct cctgatcaag 240  
gatcgaaaga aaacagaaga aatgtgcaga gaggtctttg gaccagacaa tatctgaaca 300  
atacggaatt gtcaccaaata gaacaaaaga aagaaaagga aaccataacc taaaagtggg 360  
cttctccctt tgattaccaa ccaaaatcct gtgcgt 396

<210> 17009  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 17009

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acatgcgagt atataacatg taactctcac caaccatgga tacgactttg ctctactcta 120  
gaacgccaag agaagtccac gaatccccta aactacctgg aatgccctt ggtcgggtta 180  
tcaccactca tcatccaag tgtctttgaa tcgttcaaac cgtctcctag gggacctata 240  
ttatatctca tccatcttct cttaacgaat cctcactcat cttcatgat gaaaagcatc 300  
tatactcgaa cgatgggcgt gtcagtacat gggaatagac gctaaaga 348

<210> 17010  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 17010

ctcagcttta aaacaaatgc ttcattatctt cctaatatctc atgagaatctt cgacgcacatca 60  
accagaatca agcccaagtt attgggcaag caatcaatgg ggctaaacac accaaatgat 120  
tatgatgatg gatggctcaa attctcacaag aggtaaactt atcactttca aaatgagctt 180  
tcaaaactat catgacatgt aaatgaaaat caaggaattc aagtcacaac atgccaaaaa 240  
ctttttatctt caaaacaatt acccatttct tgaacatctc ctataattca gagataaaca 300  
tgcaaagtcg tacatgcaca caaaattgac ccataatatt aaactaaca tccgacgaaa 360  
ctaacaaca 369

<210> 17011  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 17011

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gccttgaggt ggatccaagt gctctctgat cattcattag catattcatg ttttggtggc 120  
atactcacca ctggtttgtt ctttagggaa ctaccataa ctaaaaaagc gcaaaggcac 180  
ccctataaca cccgatccag aagtaagatg gataacgaag agggagtgca agaacagatg 240  
aaggccgacc tatcggcctt aaaagatcag atggcttcta tcacggaggc catgctaaaa 300  
cttcaaaaaa ctatagaaga taatgctacg gcggccgctt ccaatacaac tagggaagcg 360

<210> 17012  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 17012

tatgctgcaa acatttaca tatatttctt caaccttaac agcaaaacca acctcagcaa 60  
aacaattatc acctctccag caatagatac aaccttggat ggaggaatca ccctaattctc 120  
agatggtcta gccctcaaca gcaacaacag tagcctgctc cttccttcca aaatgctgct 180  
ggccaagca gaccatacat tctccacca atccaacaac aacaacagcc ccaaaaacaa 240  
ccaacagttg agaccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300  
ccgaacatgc agtttctgca aaagaccaga gcctccattc aaagcttaac caatcagatg 360

ggacaattgg ctaccaatt gaatcaacaa cag 393

<210> 17013  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 17013

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ggtttctaata gactcctctg cggcttccac ataaggcata gaggatgggc agctcaccaa 120  
gatgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
gtggagtgtt gaggaacaa ctctactga gtggatccac gggcgcccca acagacaact 240  
gtaggggggtg ttaatatcca ttatttgaa ggtaacttga caggtgtgag ggcctatttg 300  
tactgggaga tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360  
cattgaactt ggctt 375

<210> 17014  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17014

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taccttctgt aacctttgtg ctagcagtaa ttctcaggtg acattcaatt ttcttttta 120  
agcagaatat atgatacttt aattactaac taaatcccaa gagacaatag caagtaatat 180  
tcccaacatc acatgcatgg cttttcattt tgtaaaaagg ttgggggtac cttgtaccct 240  
tctaaaatgt tttcattttg gcatgtatgc atgctttttc ttttacgtct aaacatcaca 300  
tcctttatct ttcagctcta tttttattat tttttaatta tcttgacact ttttctcagg 360  
caagcgctac aaagagaaac tanaattagt aaggaaataa tttatatgta at 412

<210> 17015  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 17015

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cgtgcttctt actaagcgag caactgcgct aagccgacgt ttcagattca aaatcagttt 120  
tctttttttt tttaacaaac aaaagcttgg cttagcgctc agataaaacc gcttagcgag 180  
ttatgcaaat caaaaaacct gcaactctcg ctaagtcggg ctctctacca gcttagctaa 240  
aatgatgcat tttaagtaca gaggagcatg cgcttagcgg aaaaggactc gctattttctc 300  
acattgccgc aaggaattca gcttagccgc catgactggc gcttagcttc atgaacccca 360  
gttctg 366

<210> 17016

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17016

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tggcttcagc aggagtcatt gtctccaagg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
ggtagggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300  
cattgagttg cctaatacct gagatatact tctgatggc tgtggtcctt gaagcagga 360  
aaattnttt caagaatact ctcttaaggt catcccagct cgtgat 406

<210> 17017

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17017

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tcagttctag atttttcctt acaagttcta ctactaaaat tgcgatacgc ggtcaactaa 120  
accccgaaaa gtaataaaat gatcaaaagc tatttttttg gttaaataaa aatgtccttt 180

gaaaatccaa gttgttattt atttgagttc aacattctaa atgttggtgtg acttacataa 240  
 aaatattagc atatcttgag ggactaaatg acaatgagta ttaagtttag gaattatact 300  
 gatacagnga ggaatctcat tatttacttt tatggattaa attaacacta tctcacactt 360  
 ttacgaaaga atttg 375

<210> 17018  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17018

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 tacaacgtca gattcttttag catatgagac tttttatata tagctgagca aatacaataa 120  
 atagcatagc atattactat tagcataatc aatattgtcc tttaaaagat gcaactctca 180  
 ccaatgttca atgataactt ggcaaagtag tttctacatt ctcccgggca ttgatttctt 240  
 caataactat ctctttttta caaatggaaa attgtgtgtt atgtagacat caatctttgg 300  
 taatgtcatc aaatggaaaa ttgtgtgtta tgaacacatc aatctggact tctgcatac 360  
 taatcacaat a 371

<210> 17019  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 17019

agtcttcatg atgaatcaac aatgattcaa aggtgttttg atgataacaa tgatgacaac 60  
 aaaagatgat gacaaaaagc tcaagagaat caaagaacat ccactctcaag aaaatctaga 120  
 acaagtcaaa gagttcaaga atcaagaaga attcaagact caagaagaaa gtctacaaac 180  
 aagaatcaag attcaagatc tcaagaatca agatcaagat tctagactca agattcaaga 240  
 atgaagaaaa gactcaatca agataagtat taaaaagttt ttcaaaactt tgaatagcac 300  
 atgagttttt gacaaaacct ttaccaaga gtttttactc tctggtaatc gtttaccata 360  
 ttgttgtaat cgattaccag tag 383

<210> 17020  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 17020

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 tcaatttcta gcatctcgac atattatgcg cccgaatcgg acatccgtgt gaaatgttat 120  
 gaccatttga atttctcgag agctatcgat gtttaatttc gagcgtatcg atttattgta 180  
 agcctgaacc ggacatccga gtgaaaattt atgaccattt gaatttcacg agagcttccg 240  
 ttgatcaatt tcgagtgtca ctatatggga tgcgccccag ttagacattc gagttaaatg 300  
 ttatgaccat ttgaatttct caagagcttc cgttggttcaa ttctgagcgt ctcgttatgt 360  
 gatttgcttt gatcgtaaac tccggtgaaa agttatga 398

<210> 17021  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 17021

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 gagaaatact attgagtga acacaatgct tattgagttt atcctttgct tggtaaagtt 120  
 tttggaccga gtcttacatc attgtaaaca cactccttga gtgttagaat ttgtggttct 180  
 tcaaactgtt tgtttttgaa agccaggagt ggtttagtga caaaataata cttctttggt 240  
 cttaaattta aggggagtct gaggggtgtg ctagtaatgg cctagatgat acttgtaaaa 300  
 ccaaaagtgt catgtaga tacttgttgt aatcaaatgt tgattagcgc aagcc 355

<210> 17022  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 17022

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 gtaattatct ttagagatct aatcataata tttatctata ttgtgcctaa ttaaagcaat 120  
 tatctttagg gatctaata taatatatat atttttagt gtgcctaatt aaattaacta 180



tctttacgag tctataaata agatgttgga gtctataact aatgacattt gaaatccact 240  
acctatttta tgtttttaaa gctttgagac tgtttcgggt gtttctgatg catggacaac 300  
actatgagga cagatcataa tcatcgttcc ttcactactg gtatgtctat gctaatttct 360  
tctaagcttt gtagtttgac tttgaccatg a 391

<210> 17023  
<211> 442  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 17023

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gagttcacca gagagcacgc gcttgtcggc cattcttcgt gcgtcgccgt gcaatggctc 120  
ccaccatccc agacacaaat ccctgttata actacctatt gtgcagctct ttccattatc 180  
gaatgtacga actgtcaaact caccgatatg tcttctctt cccatccgaa gaccagatgc 240  
tctttcacag taaccttcgt actttgtcgc tgtttacatg gaacaattcc tattgagttg 300  
agccgatgcc catcaactgc ccatgtcgcg gcacctaaact ccattctcga atgccattga 360  
cacagatatg tctatttccc tccgaaagga atcttgctac cctctcgtag ggactcatac 420  
cgttcaccca cttaagccg tc 442

<210> 17024  
<211> 401  
<212> DNA  
<213> Glycine max  
<400> 17024

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ggttgttgct gatgttggtc tctgagttga aagtatgcaa ctgatgatgg aagttgcggc 120  
ttgttgaaga tgatatggta gtaaccatac ttgaaggaaa tcaaagttgt tggtaaaaaac 180  
caataagaga atatagaacc taattggaga tagatagggtt aatagaatag gcaagaagaa 240  
caaattatac gcaaaatgaa aatgaagga agaacaaca catatatagg atcaataaaa 300  
caactgatga ttatgtgaaa gttgatcata aaaagggctt gacatatatg cagcatttcc 360

ctaagtgcctt gttgaggatc aaagttgagt gaaaaaaaaa c 401

<210> 17025  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 17025

tttgtcgcat taatgtgcac gcgccgatgg attgaactgg gacttggaac aggaacattc 60  
gcttatcctg cgttgatcaa tacgaatccc tctgctaattg cacagaataa taaatgtggc 120  
aaacaccgag tcctgtgtgg caatcctaca acgatctgct acactattcc gccagttct 180  
ccatgcccaa gtctaactct attcttgtca ttacctccca cgcatatcga caagagtctc 240  
ccaacattcc cagagacact gcctgaatat accacaatac actactgatg tccatccacg 300  
taccatctc catctgcaaa tgaactctcc ttaactaccc tgggtaattg acccgacgac 360  
cac 363

<210> 17026  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 17026

caccatacag acctttggcc ttccaatgca caacctggag caattgaaca gcccgaaact 60  
tatgtctgcaa acatttaciaa tatacctcct caacctcagc agcaaaatca accaccatag 120  
aacaattatg acctctccag caacagatac aaccttgat ggaagaatca ccctaattctc 180  
agatggtcta accctcagca acaacaacia cagcctggct cttccttaca aaagggtgtg 240  
gccaagcag accatacatt cctccaccaa tccaacaaca gcaata 286

<210> 17027  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 17027

ggtcattggc atgatctgat acccctggac cggacagtgg cacgcagaag ctttttgatt 60  
ttccattttc agggtttggg gtcaccgagc tctgccatga gcgctgctac ggaaccacga 120

cattcgtttt agattcaaca gcaagatgaa gaacaaagat ctgacgcgga gaaaccgcct 180  
cggaactgat tggatctcaa ttctgacaga tctgatcgat tcaacgagat gatccttcag 240  
atgtacagct tcgacttgaa gcccgagtct tacgaccttc ccaaggttat tctggactga 300  
ctagcgttcg aacatgc 317

<210> 17028  
<211> 433  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 17028

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ggagattgag cgagactgaa acccacaaaa caagagcgac acaaccccg cacaacggcg 120  
acttaacttt caccacacca aaaagggaaa gggacagcca aaaaacacac cacaacagaa 180  
gagacgcgga acacaacgaa aaggccacga acaaccgacg cacagcaaaa ccgaacaaaa 240  
gcaacggcag gcccgaaaca gacagccgcc aaaaacaaaa acagcggacg agacagacag 300  
acgaaaacaa gcaaccacac aaggaacaaa gcgacaaagc aaccacgaa ggccacgaca 360  
acaaaaacaa caacaaacgc cgaccacaac cgaccaacac aaaccccccg aaacaaaccc 420  
caaaaacaaa acc 433

<210> 17029  
<211> 357  
<212> DNA  
<213> Glycine max  
<400> 17029

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tggaggaact tctgaaaag ccacgtacg cctggttgct atttgacca ccctgtttac 120  
tagatacacc ccctgctttt ttttgctgat tcattttccg caacgctacg aaactttacg 180  
aatatcacia cgagactcgt tttctttccg ctatgctacg gatccttacg aattacgtaa 240  
tcatccattt ttttggtttt cagaatgtta tggaacttca caaatgtgc attaacttg 300  
tcttttgact ttcagcatgt cacataactt tacaaattgt gcaacaatgc tttcttt 357

<210> 17030  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 17030

tgaccttgggt ttagacatga ttgatacatg atttgtgact tgtaggattt gatttgggca 60  
 agattggatg aggggaagtg tggttttcga aatctgcatt ttgtgcagat ttttgctgtg 120  
 aaattgtgca gcaggatttt gcataagtgc agcaaaatac tagacatttg ctggttgttg 180  
 aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaaatgta 240  
 agcttatgta ctagagactt ccagtaaaaa tttggagtcg atccaacggg taacgaattg 300  
 taacgaacga attgttactg gggctcttaa gtgagaaaag ctgtgatattt ggttgggtgtt 360  
 ttggcaaaga tttctgcctt tgctctgttt c 391

<210> 17031  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 17031

ttcttgtttt gtttgcaata tttatgttgt gtttagattg atctctataa agaataaagt 60  
 ttggaccaat tggaaatagg catgactgag atcacattgt atgtaatttt catgttgctt 120  
 atccatattg acctatgtca ttgagtgtac tgatgtggta gtcattgggg tctagttaca 180  
 tttgttgtag tgacaaagac acaatgattc cattattgca tgagatggac caggttgtta 240  
 aggtggaagt ttaaagggtta atagcataca gatgcgcgct taaggatttt tgataaaact 300  
 attataatat gtagcccaag tgggagattg ttggaatttt ctattccaat aattaatgtg 360  
 ggcta 365

<210> 17032  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 17032

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 aggtagcaag agcctatatg ctgacttatt agagtagatc ccagtagggg ctgctttcca 120

caacattgag tcttgcagct gctgatgaat agatatagca gatatatcgt ccatgaaggc 180  
tattgcttgc tcattcttgc gataaaaaaa gtcccttctc catttaaaat cccaattcca 240  
agtattctga taaaactttc ccattttata acatgggaag gttttgctgt ctgctaata 300  
caaat 305

<210> 17033  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 17033

atcttcggaa gaaagtgatg aggtataagc cctaaaggca gagcttgaaa gagcccgggt 60  
agtcgaagag aagttcaagt ccatagccat caaagtctga aaaagtatga tgaactaagg 120  
gacgtcaata tggccaccgc tgaagccttg gaacgagaaa ccaagaaggc ccgaaaggaa 180  
gaacacgacc aaagcaaagt tttgaggggc tttatagggc agcaatagtg agctcaagct 240  
ccgaagaggt gaaaggaatc atcatgggtc aaaggcatga tctttaagga cgagctaaaa 300  
gcttgcctca ggtcgaaaag aaatttgtcc caacagttaa gcgagactga agggg 355

<210> 17034  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 17034

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ttacttggtta tgttcatacc acatttaact cataatatca ttaacattca acaggaatca 120  
ctgagaactt tgaagcattg ttcctttcct aatgtatctc tggaaggcct aatatctgac 180  
caatggaaag atatgggatg gcaaagacct aatccatcga atgactttta gtacacaaat 240  
atgttcttat gagagctcac gtgacatttt ggtcactttt cctatgtgaa agaatttgct 300  
tattaaatgt tatgaaaaca gtgtcatttt agtgctgcta acggttatgg tagcgtatac 360  
aattcactaa tttaatttat gggatataat taaaccaa 400

<210> 17035  
<211> 359

<212> DNA  
<213> Glycine max

<400> 17035

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ctatacgaga catcttgcca aacaaagtca ggttcacgat aactcgctg tgctttttct 120  
tccatgctat atgtagcaaa gtgattgatc cagtaatgtt tgatgagttg gaaaatgagg 180  
ccgcaattat attgtgtcag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatcta gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300  
ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatat 359

<210> 17036  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 17036

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tctcagcctc atttgtcaca agatagtgac atggagttga tggtaaatat ttgtcacaac 120  
aaagtagttt tatttcaacc taatttggtg cagcactcca tttttatata ttacaattat 180  
tcatgtttgg catttgcatg taggtccctg caacaattgt tccaccaata gcaaggaata 240  
agctaaccat aacaagagcc aaacaaagga aggttatgat gcagtataaa gaaaactgaa 300  
gaccattttt ttgttgcatt ttgaagggtg ctgagtttga aggttgctga tgaagaaaac 360  
tgaagaagca ttttttggtg cattttgata t 391

<210> 17037  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 17037

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taataactag cactatatta ttcttttaat tatagctcaa attcaaattg ttgtgatttt 120  
gtatttgaag atactctcca caaaatatat taaatcgcat atataaataa tgggtgttgac 180  
aagaactact aatacgctcc atgacccccc cccttatcta cttattccat attgacacat 240

atgcataatt aatattaagc tataaactta taaaaaacia atttttatgt tggcaaaaaa 300  
atgtcaatat taacaattat ctatcactag acaataaata aattcgacta acaaaattta 360  
aatatttaaa taaaa 375

<210> 17038  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 17038

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catattgcac attgtaatgt tggagaagaa aaagacaatt ctgtaacatg tcgagtgtat 120  
attctgagca caaattggcc ctttgctaaa tgttaaacgc aagcaaaatc accatgattg 180  
aacaacagat gtaatttcat aaattaactc ctgagtgcac caaactgcc aacgttggct 240  
ccaaactcat aaattaacta tttgtctgtc aggagcaaat ttattcttag ctacctattt 300  
acccttggtg atatcatgac taacatactg gcttttggtc ttgaattagc atccacataa 360  
taaagccgga acaaagaaca taattagaac acccattttc ttctt 405

<210> 17039  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 17039

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ttgacttttt gtctagatct actataactt gtgggtttta tcaagattat gaccaaccta 120  
tttttaactc atccgatgaa atgtaggact tgacatttaa attttgagca catattaaat 180  
ttgagcctca attttatagt agtatatatt aaatttgatc actttaacta ttccattaaa 240  
tcatgcaata ttgttctaata aaccatatat caaatttaac attattttaa caataatata 300  
tatatatata tatatatcaa ataaattact tatattttat ataacattaa atattttaa 360  
aaataatgct at 372

<210> 17040  
<211> 406

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17040

ttaaaatttg aattaaaacg ttcagaaaca gccggtaatc gttttctata tatgtgcaan 60  
cgagtacaca gtgcaaactt tgaattcaaa ttttaatagc tgctgtaaat cagttttggc 120  
cactggtaat cgattaccag agagttaaatt tgttgaaaaa aactttttta cttaaaattc 180  
ttggccaaac cttttgctac ttcaattgga atcccttcc tatttaatat accctctcta 240  
agactctaca gactgggttg atcattcatc ttgaatatct ctttaattctt tgtattgaat 300  
agagctttga gactttgaga cgcattgtgaa actttggcat catccaaaca ttcagcttga 360  
tcctttgtct acaatctctc cctctttgat gatgacaatc cctgaa 406

<210> 17041  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 17041

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gttccaagta cattggattt ggtacgacca tgccctcctg atttctagct gggaaattgg 120  
cgagtggagg aatgccccgg catttacgca acgagcataa tgtaaacctt tacggtttta 180  
aaagctctat agttgggcct aggctttaga gtttttctt ttgttaaggc tttgtgtctt 240  
ttgtttttga atttataata caaggatctt tcttcatctg ttctacgtc tctaccatt 300  
ctcattcatt tgcatgtgta cttctttatt tctgaaacga cagatctgat gacgagtc 360  
ccgaaggtag taatacctgg 380

<210> 17042  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 17042

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caacataatt ccatcaccat ttgtcatcag gattcatatg atcatacctc acataagcca 120



tagctgatgt caactatcat ggattctcat catacataat tataacaagt gacacacatt 180  
gacaaccaac taaaccagtt atcactacta catacaccaa tagccaacta ggccacccca 240  
aactcagatg tcaacactaa ctctactcca tggagtttca acacaatatg agtgggttcct 300  
tatgatccct aatagaataa cttttgtgat attttgtatg agtttttatg ccattttaca 360  
tgcagtttct tggcacaacc cacgtttgga gactaattt 399

<210> 17043  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 17043

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ttctcaacag tcacatcttt ttatgtgatt cttgaatggc tatcaaaggc ctatatatat 120  
gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaaagtct tatectctta 180  
taaagcaaaa ttgttttata ctcttataaa ttctttggcc aaattacttg tgattcaata 240  
aggaattttt gagtgctcaa attgatcaat ctatctcttt caagagagat ttcttctttt 300  
cttcttcttc attctgaaaa gggattaaga gaccgagggt ctcttggtgt gaaagaattc 360  
taaagacaac ggaag 375

<210> 17044  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17044

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cggtcagatc atggaaaagt gtttgtgaag ttgcagacca aattttggaa gatccaacgg 120  
ttaatgaagg ccgggcagcg ttcttatcga ggcagcttca tgtagcttct tctagaagct 180  
tcctcgtggc ttctttgaga agctttctca agaggcttct ttgagaagct acattcttat 240  
ctatccaccc ctctattaac taaattaact tccttaaaaa taattacgga tgaaaataac 300  
gccacaaata atcaaacatt anacataatt actaataata tatagatatt tatatcaggg 360  
tgttatagta gtggtcccag tatg 384

<210> 17045  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 17045

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tttttaatcc tatttttcta acaaatagcc ttcacaaagt gtgccgaatc cgatcaatgt   60
gagtgccatc accttgatgc atggcaacca aatgcatgtg cctacacaca ctagcaacat   120
ctgcactgga acctgtcaac cttgattcta cacctgaaca ataggatgac ttaattgcac   180
tatagatata gctgcctatc ataaattttc atgcaggtag accttattat agtaattcca   240
actaacatca ccctgctatc cctctctcat tcccacctat aacaattccc aacaaaaaga   300
tggaacatgc gtataaggac atcttggaga ctttcaaaat tgcagaggag atcatacctc   360
tgctagatgc catc                                                    374
  
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<210> 17046  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17046

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acccccaaca gccacaagt ctgccacatc ttggtctccc aaaaggctga tgccctagggt   180
gccaatggg cccttattac aacttgaact aaacctaact aaagcccttt tagttgatta   240
acccaaaaca tatttttggc caccactt tacaaggatt gggccattat ttagataaac   300
taaacactct aagattgaga caaagtgggt ccatttaatc ctactccatc tgggccatga   360
tacaactcac aaccttggac ttt                                                    383
  
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<210> 17047  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 17047

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gctgaatca gtccctgacc ctgagttctc cttctccttc tcctctttca aggcacggat 120  
tagccgattt ggcagataca gataccgac ctgaaagcgg gaacgattgg cgacaattct 180  
ccgcccaggt ctccataccc aaatgtcacc cttttccggc caattttccg gcgcataatg 240  
aaatccctcg ccggacattc cctgtgccac tggctgtaaa ttcaataata cattattctc 300  
ctccatgctc atcttccatc tccatctcca tctcgaacgc tacttatcta gct 353

<210> 17048  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 17048  
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taattaaanaa ctaaaaaacc tgcaatctat ccttagcaat gccattatct agccctgctc 120  
tatcaagttc taaggaaata gtatagttcc cagtgtctaa gttcctaaca gtacacacca 180  
atgggtgatc agactaaaag catgcaacaa tgaagcatcg atagaagcag tgaacacata 240  
aaccacactt aattagatat gaaaagtgtt tacatcaact tttcattaga catccccaac 300  
tagagttgta gcaagccata acaaggaagc cttttctaca attagataga gaatacagag 360  
aaattattgc ttacacagga aggggggat 388

<210> 17049  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 17049  
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cgattgtgac cgcttttagga gcggtatgca ccacgcttac tttgtagctc tctacggatt 120  
gtgttttctg cgggaactaa acatgcaatt taggccccac gaactttctg actatctaca 180  
agacaaaata ttcatatatg ggtgccgata ggagactccc atgggatact ttgatcacac 240  
aacagccttg cctgatcgca catagatgcc ccatcagaaa gtcgtgcaga caagagaact 300  
gggtctacgc aagcagatgc gatagatgcc aaaacgccc cgcacaggcg cgatg 355

<210> 17050  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 17050

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 aaaatgggga atatcctccc tccaacctg gtggagctac cagaaacttg gttagctgaa 120  
 ttaaaactat gtttcgtccc atcaacatct ctaagaaatt caggctcctt agtggttaacc 180  
 actgagtcca tcaagttgcc gctgaacccc aaatcagaat acaccctcaa ggcacccctag 240  
 atatgaaaat agatactact agatatagta gtggcagaac attaaaaaaaa ctgatataatt 300  
 tgataatatc acaataaagc acccatatat atgttcatat cctctactgt caaatcagac 360  
 aaagaactca tatgact 377

<210> 17051  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 17051

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 ctctaataga ctatatcttg caggaatatg aactctatca tgcataattg tgtgggtcact 120  
 ggcaaccata ttttcaattg agtccatggc ttcttcaagt gtcttcaccg gcataaccca 180  
 attttgaaga tgcctaacta tataagctct gaaaaagcta cagtgggagt gttctgtaac 240  
 aagctataga atcgttctta tgcctcagtc aaagattcat ctagaaactg atggaatgaa 300  
 taaatta 307

<210> 17052  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 17052

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 ctctggtaat atcctgctag gcccaaaaaa ctgctaaatt caaaaacaga ctttaagactc 120

tcgcactcga gaatgacttc tatcttagag gagatacagc tatacccctt gagatatcac 180  
atgccctagg aagctaactt tctctaacca aagctcacac tcggacaact tagcatagat 240  
tattcattcg tatgggtatg cagcacaaac ctaaagagct cttcatgttc ctcttttagcc 300  
ctggaatata ccacaatatg ttctatgaat actaccacaa aactaacgag gtaaggggtga 360  
aagactctat acatg 375

<210> 17053  
<211> 479  
<212> DNA  
<213> Glycine max

<400> 17053

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gagcctgatg accctgcaaa ccacgggaac aggacccgca aggaaccgt aagagacatt 120  
tggcaaacat tctaggagag gaaccggacg gagccaccaa accggaacag cacatgcagc 180  
atcgagtcgg acccagggca ggggccaag aagcagacaa cacctacaat tccggcctaa 240  
caaacaagat agaagaacga gcagacaaca acaggtagcg aagcaccagg atatagccca 300  
aaagatccat acgcacgccc gcggaccaac gcgaggcact acccgccaccg acttacagcc 360  
catagagaag cacccaaccc tcaaaaaaga cggaaaacca ggcggcagca aaaaaccggg 420  
gccaaggcc aaaccaaaaa agcggggcaa caaggaagac ccccaaacac acaagctga 479

<210> 17054  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 17054

taggaagtat caatagaggt tgaacccttt taagttctct attgggggtca aaccagggaa 60  
atagcgaggt ttcatcgta gccacatagg gataaaagtg gaccccgaaa agacgaaggt 120  
catccttgag atgccggaac ccatacacia gaggcaagat cgagggtccc tgggacaaat 180  
gacatatatt gccacatcca tatcacaact cactgctatt tgtgagccgt cgtacaaact 240  
attacgcata caccaaactg tacgctggaa cgaggatgca aagacgcata tggaaagatc 300  
aaaaagtgtg ccatgaatcc tcctgtgctt atgccaccgg aaactcgaaa gc 352

<210> 17055  
 <211> 140  
 <212> DNA  
 <213> Glycine max

<400> 17055

aagtgtctctt acgcatatgg cggatatacac accacatagg ggactcttctg cacaacacgc 60  
 atgaggcgct aaataagcag ccccgaaacc gacaagaacg gtgagcgaaa cccggcgagc 120  
 agaaagaaac tcaccgacac 140

<210> 17056  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 17056

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 ttgtgtataa aaaatatgaa tgtccatgta tcactactct aaatcttttg taataacaca 120  
 aaattaattc cttttattcg ataaataaaa ttgatgaac tattccagaa ttttttatta 180  
 catctctaaa ttatttattt tttagtttgg tatctgaatt tgtacttatt ttttttaatt 240  
 aagctcatgc cacacttaat taaaataaat aaatacaggt tcaggatcct attaaataaa 300  
 caatttaata atctaattaa taaaataaat agtttacgga cttaaaaact attaatatat 360  
 gca 363

<210> 17057  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17057

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 agacattnan nctnntccnn ncnccaaga gacgggggttg anatagaaga tcgctagnac 120  
 attnccgan annnccnnnn nnanannnn nnananacan anagcccggc ggccngcgga 180  
 cacaacagcg cacacagca cgtgggtgggg ctctcacgca acacagatgc cgagagccga 240  
 tcggggagggc aaggtcacc caccgaaaca tacaaccat agaccgaaaa gagggcaggg 300

ccccacaccc gatcagggag ccgccaaca cgaccacccg cgccaccaga aaaaaaaca 360  
gaggctacca agccaccgac ggacaccacc gacccgaaga acaacgggga ggaaacgcgc 420  
cccaagaaaa aagaagcagc cgcaacacaa ccccccaag gggagaaaca catccccccg 480  
gaggccgaga aggaacacaa agacacggca aagcagggga caagacccaa cccacgccac 540  
agagaagacc ccccg 555

<210> 17058  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 17058

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ctacagcaag caataaaaac aaagtatata actatatatt ctctaaaaca acaaaaatca 120  
caacaaatcc agcatcatca agttcacata tcacaaattc aatacccaaa ttctttgttc 180  
aggctgttcg cgcccgagc cgtggccttc ccgccaccgt atttcgccac aaaatcatcc 240  
ttcgcacgct ccagaaaagc cacaggcacc tgtctcccaa tcgattcatc cgcaacaaca 300  
caataagcta aaaaaaagtg agtcagacat tcatttccaa aaacataacg ctgaacttca 360  
a 361

<210> 17059  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17059

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gcctacatga gtaccctgag gtacaattgt aatcctcatt atcatcttcc atttgcaaca 120  
gcaaaaattg tctattagga catttatgat taaaagagaa tttctcatc aaaaataaca 180  
caatcctttt tccctttctc actgcatttc agcaggagta atctttttta cattcgagga 240  
ccgaattgga gggcctgatg gagtaggtaa aagcgaaagt aaactggatt taatttgcgt 300  
ttttggttga gcattaatag agattggggg agaagaaatc tgggaatatt tgtgactata 360

ggaaatttga aatggcttat aaacatgacc a

391

<210> 17060  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 17060

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ggttatgaag tatttcggac tatttgcac catgtctgga caacatatgt ctgtatgtat 120  
gattttctaat aaattagaac tcctctttgc acccttttta gacttgtag tttgcttacc 180  
cttaatgcaa tctacacaag tctcaaaatc agcgaaatcc aaagtactaa gtactccttc 240  
atttactaat cgcttgattc tttcaataga gatatgtcct aatctccggt gccacaacat 300  
agaggattct tcattcaciaa tacatcgttt ttaacccaac agaaacatgc atagaagtag 360  
catcattttt gaa 373

<210> 17061  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17061

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gtgaatgaac tgaaacttcc caaacaacan ancaccaaga aaagagggcc cggaacatca 120  
acactttcaa tgggagtctc accggcgcaac ggcgaacccg aaaggggagg ggcacccgcc 180  
accaggcaac accggagcga gaataacaaa aggcagagga acaaaacccc cggaagcccc 240  
cccgaaaggg cgcgtttaac acaaccacaa aaaaaagagc cggcaataac atggggatac 300  
cgggcgaagc cagcccccca aataagcccg cacatagcat ggccaaacaa gatgaaaaca 360  
aaacccaaca ccgccaagcc caaagaaaaa acacactccc cagaacggga gaaatccaag 420  
ggtcacaggc gcaacgacac gggacgcgcg acccccttaa aaaacagaag agccccccc 479

<210> 17062  
<211> 378  
<212> DNA  
<213> Glycine max





caggcaattg ttccatcaca attccaatca ctgatatgtc ataaatcaat ttttgcaagt 240  
catttcccat caaatcaaag ataaattgca taatcatcat ggatcattag ggcttttagg 300  
atttggaacta gctttgaaag aaatattggg ttttctggat attcaaaaat accttgagaa 360  
taggaaagca acataaaaaac aa 382

<210> 17065  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 17065

tgaatctaan aagttgttca gcaatcttca tgcccatctt ggaccttagg tcgatgttgt 60  
tgaacctact agttaaagtc atttcccaac ctcaacccat cattgaagat gcactcacia 120  
caatgaacaa ttccagcact cctcatgaaa taactccctt gactgcctct gctccaatag 180  
gtgtgtctaa agagagaata caagaatttt tgtgtaacga tctacctcgt cgctacgata 240  
tcattactct aaaccgcata aatttcaatt ttaaatgaaa acttcattaa tttgcttatg 300  
aaaaaagaga gtaaactctt tgcaatatac attcaccaga caaacgcacg aataacttaaa 360  
tgaatntata tgtatataga tacattaact cagtacacat ca 402

<210> 17066  
<211> 378  
<212> DNA  
<213> Glycine max  
<400> 17066

ttcttgacca tttttgaccc aaccggggca tagtcggtca gtgagaacct gtgatgcagg 60  
cgagctcctg gcagtcaaca gataaaagga aaacaagacc acaaagcaag gaggcttgtg 120  
gtggctggcc agctgtgaat tttgtgtaat atgtggattg tggcctctgg taatcgatta 180  
ccaagggtgg gtaatcgatt acaaggctta aaattgagga cgggaggcta agatgggtctc 240  
tggtaatcga ttaccaaggg gtgtaatcga ttaccaggct tgaaaacgaa gtcaggaaac 300  
ttagggagtc tctggtaatc gattaccagc ctgtgtaatc gattacacag aggaatgggt 360  
cactggtaat cgattacc 378

<210> 17067  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17067

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 atatcgacat tnttttcata aagtctatat atttacttta actataaaat atatcacaca 120  
 tattaccaat gttttgttga ggaagctcat tgattatgcc aatggttcat cttaaccagg 180  
 tctctgattt tggattggct aagttgacca atgatactaa tacacatgtc tctactcgtg 240  
 tcatgggaac attcgggtaa tttcgccacc ccatggttta atacctacgt agaaactata 300  
 aagaaattga taaaaatggg aattaatagt ttaaatttgc atgtctaaac aggtatcttg 360  
 cccagaata ctcatcaagt ggaacattga cagagaaatc tgacgttttc tcattt 416

<210> 17068  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 17068

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 atctttgaag gtgctctatt ttttgtcaga agactttgcc ttattgcaag ctcaatattc 120  
 tccaattctt atcatcaata atattaacat aagagtagta attaatcgtg tcattacagg 180  
 caagatagtt taatttattt gagaagtctt ttgatagatt tctgcataaa agtttcaaaa 240  
 ttcaaatcca ttcagcgatg aaatatatac tttattcata tgtaaaaccc ggcagcagat 300  
 caacacctta gctggtttta taccttcgca atgaaattca aaggacaacc ttgtactctt 360  
 ttttacgggt actatt 376

<210> 17069  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17069

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tttaccaatg gaaaatatta cggatattgc gttttttgca ttcttatggt ggtattcatg 120  
atgcacacct tccaggagtc aatagttgca gccggtgctg gattagcctt agttgactca 180  
gtggtgatct cttaacctgg catgtgcac tcttggaat aatctgtgtg cgtgtttcgg 240  
cgaggggtaa gtgagtggat atggatatgt acatatctac ttcttctggt gacttcatac 300  
tggaaaggac tatttgtgtg tgcgtacctt ttttgtatct ttaaacttgc gttcgctaga 360  
gggggttaag gagac 375

<210> 17070  
<211> 268  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17070

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ctcaactact ttgttagttt catggggcct gttcgctggt tgttggattt ggtggagcga 120  
atgtantggt ctactctggg ccatgtagca ttttggaagg aaggagtaag ttgctgttgt 180  
tgttgatggc tagaccatct gagattatgg tgattcctcc atctgggatt gtatctattg 240  
ctggagaggt cataattgct atgctatg 268

<210> 17071  
<211> 99  
<212> DNA  
<213> Glycine max

<400> 17071

aaaccatgcc ttgagctccc aacttgaacg gttaaggcct tccctacttg aaaacccgaa 60  
tgccaactct tatagctgcc ataaatttga atctgccgt 99

<210> 17072  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17072

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cagtcttaac agccttaccc atctatttgc tgtccttctt caagatacct aaacatgtgg 120  
 tgcaaaagat tgtatctatt caaaggaatt tcttatgggg aagtcaccaa gactccaaca 180  
 agatcccttg gggaggcgcc atttgacat gaatcactct tgaggcaaaa atcaaggatc 240  
 aaatggctca nggaagggtga cagtaacaca tgcttctttc ataaatccat aaattttaga 300  
 agacattata atgcaattca aggaatatc attgaaagta tatgggttca gcaaccaaaa 360  
 ttggtta 367

<210> 17073  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 17073

tgttgacacg cggagattta cgtcatcttt cgcgcacaca agatctgtca tactgacatt 60  
 tgagtcacgc tgacgggcgg aaatacccgga gtggttatcc gtataaacat tcttttgctg 120  
 tctgtaagac aaaaagcctg atagcacgca gagactaacg tcgtcttctg catccttcgt 180  
 caatcgcggc cgacaagccc gttggcacgc ggagatttac gtcacttcc gcgctcacia 240  
 gatctgtcat actgacattt gagtcacgct gacggacgga aatacccgag tgggttatccg 300  
 tataaacatt ctttttgcta tctgtaagat gaaaagcctg atagcatgca gagactgaca 360  
 tc 362

<210> 17074  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 17074

atcttagtct tgatgttact ccccatatct ctaacaatct ctcccccttt ggctttgatg 60  
 gtgccaaact tgaattgcct tttgagtga tttggagatt cttgagagta gagacttttt 120  
 ttaaaaaaac ctgaaagttt ataactacta agagaagtggt caaatcacat cttcatcatt 180  
 aagtacagtt gtatacggat gtatgtatac aatgcattac ttcctcctaa tgcaatgttt 240  
 ctcccccttt ttccattata tagccaaaaa gtcacaacta ctgatagagt atacaaaaaa 300  
 aaatatgatg tgaataggga aaaatgatca ttacaattaa ttcataaaga acattacgac 360

tattat 366

<210> 17075  
<211> 359  
<212> DNA  
<213> Glycine max  
<400> 17075

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tttcgtgttt tatgtttaat tgctagtatt gtgtagtat gtgtgttcgc gttgcttaat 120  
ctcttgatat tttgcttagc gagtggtctg tttcagtttt cctattgagc gctttcccta 180  
tttcagtatt gcgtgttctc tgtgaatagc gttttgcgac ggacttatcg accatttcta 240  
cttgcgccaa accatagtaa tagtaaaaat cccttaccga ctgattttat cgaccacca 300  
tgctgaatta tttgtgactt tttgcttact acctagggtt gttatttctg gctgaattt 359

<210> 17076  
<211> 367  
<212> DNA  
<213> Glycine max  
<400> 17076

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gtcctttgtc acgggaagcc ggaagggtcca tatcaccttc ttaattgtac acatggggca 120  
ctgcgcccc aaatacgcaa gtatgatgag ataatgttcc gggctctcgt gtctgtaaaa 180  
tgcattcata tcatgcatcg cataaacatc tcttcatggc atcataatga acatatcggtt 240  
cctgcatttg tctgttatca tattacagcc tcacattttg catgagtcac ggcacatca 300  
tgcatatgcg ttcaacaaac tttttgatct gcaaaattgg ataccatttg tcttcatggtt 360  
tgctcat 367

<210> 17077  
<211> 396  
<212> DNA  
<213> Glycine max  
<400> 17077

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atcaccatag ttgaacgtta aaattgatac ccgtatctca aaaactaaca cgtcacccat 120  
ggcttccgat aataacagtc tattcttcgt tatccttgct agcttctca gtttggaatc 180  
tactgaggca cagatatact aatattgctc cagcgaaaaa accaatgccg gaacctcctt 240  
ctcttccaat cttatttctt cattattatt accattctcc aacctgaca aaaacacacc 300  
tccgaatcag cctatggagt ccaaagtga acccagcctc tacactcatc aggtcgctcc 360  
ccctctaaag aatgcatgga tagttattcc tatagc 396

<210> 17078  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 17078

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atggctcaag aacaacacga tggcttacag aatgggtgag ggccaggagt acaagcgctt 120  
taggttatta tgttatatac agacggctct aggataaaaa ccgacgttgt cttaatttat 180  
agtaattaca acattgccac agcaccatt ctaagacggg tattcataac cgccttataa 240  
tgtacgacgt aaaaacaaat ttttgtttcc ttatttatac aattgccacc gcgcatatt 300  
ctaaatcagt tcttgagaac tgtcgtagct ggcgcgtcgt acattcaagc tttttagta 360  
gtgta 365

<210> 17079  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17079

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gttgagtttt taattaaacc atgtgtggca ggaaatgaat gttctgagag attggcatac 120  
tatgggatga gtacaaacct ggtgaactat cttcgggagc gtttcaacca gggaaatgca 180  
accgctgcaa ataatgtcac aacctggcca ggaacatgct acatcacacc attgattgga 240  
gcctttctag ctgattcata cttgggaaga tactggacaa tttccagttt ctcaattgtc 300

tatgttattg taagtttaga gatttttttt ttcttgtttg ttgagtcccc atgttatgct 360  
aaaggcattt agtcttcact cttctgacct cagtttatat tt 402

<210> 17080  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 17080

tgcttaataa ggctatacgc tggaccctgg ctgacattcc tggatttagc ccatccacat 60  
gtatgcatca gataaattta taggatgggg ctaaaccagc aagacaacca cagagaagac 120  
tcaaccgggt gattcttgat gaagtgaaga aggaggtaac caagcttttg caagctggaa 180  
tcatttatcc tatctccgac agccaatggg tgagtcccggt ccaggtagtc tcgaagaaaa 240  
ccggcctcac cgtcataaaa aatgagaagg aggagctgat tcctactcgg gtgcagaaca 300  
gttgagagat ctgcatctac tataggaggc taaaccaagt taccaaaaag gaccac 356

<210> 17081  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17081

tgtatgagta tggggtaccc atcacatgtg gtactatgtg gcggnccgggc gaaggtgcac 60  
aacagggttt ccacatcctc aatgcgcgca taaaccacc atcccccggt gccaccttc 120  
aactgaactc aagcactgcc acgtagccca tatcctcgat tctctcagac accgggtccc 180  
catcaatact ctcaagcttc caccacatgc gatcagaaac aacattcaca cagcacgaac 240  
tatcacagcc gagccaagca cagcagaggc acagaactct gctcaacaca tccac 295

<210> 17082  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 17082

tttttattca taagctccag aagcaagctt tgctgaagag gaatgattca gccatggctg 60  
atagcttcaa ccagggttat tagggataa gaaggctaaa gctaaaattg agaataaaaa 120



atatctgact tcattcatag gttaaggtta ggtgaaccac ttcataagcta aaaataacct 180  
 gttatattct caatttttaa aaaatttatg aattttactc ttaataaaaat tgtgcttttt 240  
 atatgtaatt ttttattttt tggccaaaat ttaaaattta tttttaattt atttttaaaa 300  
 ttttattttt attttttttag aaaatcttac ttcaactttt atacttatta acaaataaat 360  
 g 361

<210> 17083  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 17083

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 cggcaagcaa ctgcaatgga gatatgccct ttgaactttg aagtcactca atagctatac 120  
 gtcaacaaat agcatcaaaa ggttaatggg tcgacaaatt ttcgaccaag caaatcaatt 180  
 gacaagatac gaatttaata attcgggcct caaaattaaa gctgaaatca ttatttcacc 240  
 tagtggttaac attgattatg tctgaataaa gaagcagaaa aagatataaa agacatggct 300  
 aaaaagcaat ccacatggta cccctcttcc tccacgtgtt ctctgtatct cagagcgtct 360  
 tccaagctta aacaaacgca gcacaatttt taca 394

<210> 17084  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 17084

cttgggagtt ctgagtccat gagggctactc agaagctaaa gggaatcact aatagggtct 60  
 atttccgctg aatctttcgt ctttgatttt ttttttttcc tttcaatggg gtagagaggg 120  
 ttttctctct caaaatccaa ttttatctct tcacaagaga taaatttttc tatgatgaat 180  
 tgtetaatta ttagagctat actaatgaag aaattagaaa caaattgagc aatgaatttc 240  
 taaatagggc aaaagttatg gataaggaat ttatttctct ggatatatta gaaaacccaa 300  
 ttcgattgtc taatgatgaa actaaaacaa atatttaact aaaatatctc tcaatttggg 360  
 tattgaagag agag 374

<210> 17085  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 17085

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ttgatcaatg ttctggattg tctaactagt gaaaatgaga aagatctaag ggctttcttg 60
taagacttag atcgtgaaga aaccattcct gcagggggaa ccaactttga agaattgaaa 120
agcgggagtc aatccgagaa gaccaagggtg gagttgaaga tcctacccaa ccacctgaag 180
tatgtgttct tggaggagaa cgagaccaag cccgtggtga tcagcaatta gctaacagta 240
gaggaagata acaggttggt agaggtcctc aagagacaca gggaggcaat taggtggcac 300
atatcagatc taaaaggaat tagccttgct tactgtatgc acaagataat gatggaagaa 360
gactatagac ctgtca 376

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<210> 17086  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 17086

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aaagatatga ggactgacca aggaggagaa ttcacttcca aagagttttg agagttctgt 120
gaagagaatg gaatcagatg tcccctgatg gttccaagat ccccccaata gaatggtgtg 180
acggaaagaa aaaatagaat aatccttgat atgggtcaaa gcatgctcaa aagcaagaaa 240
ttgccaaaag aattttgggc agaagctgtg gcatggccgt ttatctattc aatcgatcac 300
cgacaagaag tgtatgggga aagacaccac aagaagtatg gagtgggaga aagtctggta 360
tctctcactt gagggtc 377

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<210> 17087  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17087

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 tgatataatt aatgatttat ggtgtaaaat actaattaac attactcata catttttagca 120  
 tcattacagg tgttcctgac tctagcaact tctagtgtg ccgctgtctac tgccatagtg 180  
 tacttaacac acaatggcaa tcaggattcg aattggcttg ccatctgcaa ccaatttggt 240  
 gatttctgcc aagagattag tggagcagtg gtggcatcgt tcgttgccgt gggctctctc 300  
 gttttgctca ttgttatgtg tgcagcggct ctaccaaadc attaactagc accacttaat 360  
 taattatata tggagctat 379

<210> 17088  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17088

gagcgtannc gtgatgcttg taatcttggg tgaccactct gagaccgcg gatcctctcg 60  
 agctgacctg cgggatgcat ttttgcaaca ttctaccgcg atttttgaca gcaactcgca 120  
 gaacagagta tcgtatatat gtagcatacc accctgacta cgttggcacc tacgctgaca 180  
 ccgctgaccg atgcacgtga tggcgccgag aatctggacc tgcttaatca taagcaggag 240  
 gaaggcctgc accaccgcg gtggcggcaa aagctgagct gggttcgtag attccatgct 300  
 cctacctagc aggtcacgac ataaaagggg gcagatgata tggatttcat tatcgcttgg 360  
 cccaggctta catctccaca gaaccaact tcttggaatg aacgtgtgat cattcggaag 420  
 cgaaactaca tctgatcgat agtaaatacca agg 453

<210> 17089  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17089

cctatgctct taactcacia acgtgagaac agttaaatt gatcacttac aacactacca 60  
 aaccccggt gctttgatcc gtagtagatc ccgtgacact atcanantac tcaagtctnc 120  
 acacgcgtgg ctcttagctc ctgacagaag agcagtaata tatgtatttc aatctgagac 180

aggcacattg aagcatgccg acgaagacaa aatgtcagca cagagaaaac cacaaaggaa 240  
gaacggtcga aaagacaaca cgaaccagca tgctccaagc caattccgac ggaaggaaat 300  
catagggagc gaacgccgct gaatggagaa tagcttatca cgaaagctaa aatgggtcac 360  
atgacactgg taggacatcg gacaaccaag agtgaacgaa agtggacccc tctagaatgc 420  
ttgatcatac tcgttcgatg acattttgga aaaggcaccg agaagcatac cttgagcgaa 480  
gtgaaaacca atgtggaata gaatgtgaac aacgtttctt gaaatatacg gataccagga 540  
accggtatct acg 553

<210> 17090  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 17090

ttcttcagaa tatacttcca aaatggtaac aagaagtacc tccaaattaa ttaacgtcat 60  
taatgaagat agtgaccaa actcagaaaa cacaactgag ataggatcaa tatcagaaaa 120  
taatataaat ccaattaatt ccaaacactg gaaaaccccc tccaaattat attatcaacg 180  
tccaaccgcc cctgacctac tattagagga aagaggagaa aacaatttca agagttttag 240  
tgctaacaac atctatgaat ggaacataga tgcacaaacg gagtataata tcatgaatac 300  
actccaacat atgaccatgg ttgctacggc ttaccaaacc tcccacgaat gttcaaaaga 360  
gaccattata gatattctt 378

<210> 17091  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17091

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tttgaagaat gtgttttgct acaaagtacc gatactttta tttgcttcat gcatctatac 120  
ctgataccaa tatattgata tattttcactg gtacatatat gtgaagacca aatcttttaa 180  
aaaattatga aaatcaaata tagtgacata gaagtaagta taatatagaa atataaaaag 240  
tattgtttct tgatgaacca aatataaaaa ttgttttggt tatagataat ttcaagaaag 300

aaatgagatt gatcattgat agtaccattc ttatttgtga aaaataggaa aaaataattt 360  
acaatntttt ntattntggt tttagtaatg tctaagaagt atgtat 406

<210> 17092  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 17092  
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ggtttacatg tcacaaaaac tgtggtatct cagagtcaat gtaatagaag ctcaagatgt 120  
gataccgggt gacagatacc gcctaccgga ggtttttgtg aaagctcaag tgagctgcca 180  
agtgtgaca accaagatat gcccagcag aacaaccacc ccattctgga acgaagattt 240  
gatctttgta gcctgtgagc catttgagga gcaattaaca atcactgtgg aggatcgtgt 300  
gcacccttca aaagatgagg tactggggaa gataagccta ccaatgaccc tctttgagaa 360  
gcgattagac cat 373

<210> 17093  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 17093  
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ctgaatgggt acaaagtgac ttgcagcaat ttgatgagta actcaacatt atatataatt 120  
agtgcaggc cacttatgtt catcaaattt taaaatccta tacatatcta aaatgaactt 180  
aatgttaatt tcaggatgtg tcaaacatca tatactcatt tatgaaatgt gtgggattca 240  
cccatctaaa tttggaagag attacggaat gcaggattgt ttataatcat tggaggaatg 300  
ttacacaaat tgggtatgaa tagaagactt ttgcacaatc acgaaatttg gaagctaaaa 360  
ctcaaattat atttgagttc ctagatgcaa catctaac 398

<210> 17094  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 17094

gacatgaaga atgtgcagct actgagcatt cactcaatac ggtctaaagt tcactaaata 60  
tgacacattc gttcgcgaga aaccacctca ttcggtggaa tgaggatgag atgcgacgaa 120  
atccataaca tgttatccac gatactcgta ttattataga cgtaagaaga atcttaatat 180  
acatgctcta atcgctgtac atagaatccc atagaccaat ggatcacttg gctcggcgga 240  
tgagtgaagt aaggcttgaa gttcggtcgc ttactttaat acaacacaga ctacgttggtg 300  
cgagaaaatt acatcatatg aataatatat aatactacac ttggatac 348

<210> 17095

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17095

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agcatcgga cacggaacac acaacctcga catgtggtgc atcgagcacc aagtgcgcct 120  
tggtattatc taaggacaat ggcgcgagac tgacgatcca aaagccgcca ttccaacacg 180  
gcgaggccac tacgaagaaa cctaacaccg aagccaagcg cgagaaaccg gagaggagta 240  
gcagaatcta gccacacccc ctgattgacc agacgagcac gaccactata ccataccggt 300  
ggagctcaac aaaaatcgaa catccaacga agataacaag ccgtacacgg aacaactaaa 360  
cacgggatgc agagacagcc accacaagag acaaggggac ttagtcacga ctctcggaag 420  
ccacaagagt gccggaccat aatgatcagc tggtcacagg caaagaaacg tcaaaccata 480  
ag 482

<210> 17096

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17096

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gggtacaccg gggatcctcc tgcaggggac ctgttttgtt tgctcttttt gaacaacatt 120

ctcgagccgg ctgaggtggg atccttgtga cgcataatcc tcttctttag gatctagtcc 180  
 ttgaccgaca tgactctttc agacagtatc cagatcattc tgattatgct actgattacg 240  
 ccttgccaac attgatctag atcgcattat tatattgggtg taacttcctg aacattttgc 300  
 atgttatctg gctaattgtt cattacgtgc ctacgagcga attcggacaa ataatatagg 360  
 tgtaatttat gatactcact aacttggttag acgtcgtccc atcataacgt ggagaattcc 420  
 ttcactactt atttatggag aactttcgtg ataaaataaa ttacgcg 467

<210> 17097  
 <211> 754  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17097

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 gaaaaaangc gagacacana nncacccacn acnnncaaag agagaggtnn tggaaatcga 120  
 agtccactnc gcatangccc cgnanannac nnanacaaaa nacnncaggg cngaggagcg 180  
 cagaancang gcgcnactgc aaggcaggag cncaactaan cgagagggtan ttagntcata 240  
 gagacacaca cacnacgacg cgcgcacaca naaggcgaga gcagagcgac gagncgaaac 300  
 cnacgcgcgc nctacagcca taagcgagcg acataacaga gctaaaaccg cagcaggcac 360  
 acacaggaag cacagcacac gccaccgcgc gcacacatac gcctgttaca cctccgggtg 420  
 cagagatata ccgtacgagg ccagaagata ccgcagcgag aagctaccaa cgagagcgac 480  
 gcacacctag caagcactca ggacacagat aaccaacagc tcacacacac acaaaggcgg 540  
 cggcacacgc acaggacaga tcgcaaaaag cacacggacg cctacacgtg gcagcacgca 600  
 aacggcagcc gggagagaca cacagccccg caccgccgac tgtaagaacg cagcgccaac 660  
 ggcgcggcac cacatacagc acagcgcaaa cccacagcg agatagacca aggcaaggcc 720  
 gaacagcacg aacacgcgca ggggaccaca cccc 754

<210> 17098  
 <211> 104  
 <212> DNA  
 <213> Glycine max

<400> 17098

cctaccctta tggacctaaa gtccttttga tgagctctta ttttggcaca actaggggtga 60  
tgatctctta cttcgggtgta ttgcaacttt aatatctaga aggg 104

<210> 17099

<211> 332

<212> DNA

<213> Glycine max

<400> 17099

ttgctatgat gcagggtgta ctgatatttc gtggttgcgac tgccaaggag agcagtgtag 60  
atgatgcact tccatttagc atactgtcat ctaattgaaa gttgcatccc cgacaaccaa 120  
gatttcctta ctatcatcgc tcgaggcatg tatgtgattc tcacacttat gtgcttaagt 180  
attataggca atgggttaaca tgttactatt cttttgtagt acattgtatt tcattgaggg 240  
agccataggt ccccgtttga gattgcgtac gacgattaat acggataggt tggattaatt 300  
gttgaattca tacttgaatt gtccgattgg ac 332

<210> 17100

<211> 118

<212> DNA

<213> Glycine max

<400> 17100

cgggtccggca gaccatactc atgtgtgaca cgctatcatc aaatttcagc cgataatccg 60  
gttattatct ctcattcatg cgacgcaagc aaacgtttta cgtcaccaga aactgcct 118

<210> 17101

<211> 357

<212> DNA

<213> Glycine max

<400> 17101

ttctttctcat cagaagccac tctccaacca taatattggc catcaatatt ctgctcattg 60  
aaataaaata aaataaaata aacaggacca aaaaagtaca tatgagcaaa atttcaatgc 120  
cctgagggcat aagcatcagc gcaactcatc atttggataa tgaatgaaca tttacagaca 180  
tataaattcg gcaaagtcac gcttctacag tctacttggc catcattatg cggctacagt 240



tggcccaatc tttcctgcat gaaagaaaga aacaatttta atccatgttt cagagcagga 300  
aaataaaaat gataaataaa ccatcacatt ttttgaaaaa ggaatttatg tagatag 357

<210> 17102  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 17102

ttgtggatga ttgactcctt ttcacggtc tcttttgtgc gccgtaacaa gagccctttg 60  
gcggaagtag gcacctaaag tcctgatcag ggtatgcaac ccctcaaaga atactcttcc 120  
tagcgacttt gtaagccaca tcaagttcat cacacctttt ggatatgacc gctatttctt 180  
ccttgaagga gaacttccgt tcacataaac ctttgtctgg aaagcaaagt gtcctccaat 240  
aaagatggac tgactgccat gagatgct 268

<210> 17103  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 17103

tatcttgggt cgatgggggtg ggtattgata tggatgaaac tactattcaa tacactaatg 60  
aagcccaaca agctattacc gagaggccca agtgagttag catgaagcca aaaaattgaa 120  
ttgtttatat tcattacaca tgattattat agtgggggtt attaacggac cattctaaaa 180  
gttaatagtg gaattctgtt agaggggaat tggggaaaat attcgagtgt taagactgtc 240  
gtcctttata taatacttac tatattgggtg aaaaggtatc aatgagaata ttgtctattt 300  
cttctctcta ctatcttgct ataggatcct ctatccttta atttagagaa ctctt 356

<210> 17104  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 17104

tgatttgggt atacaaggct caatttgtgc tatcttatgt gctaaatggc ctaaatagta 60  
ctttatttct tttcaattat tcactttgga atcatgggaa acacaaaagt tgacatataa 120

tacatttata gcatattagc ctgatgatta aattgattgt aagccctcat gttttggggt 180  
agagagcgga agaactgaca actccatata ctttctgtgt catatgtctc tgaccaaggt 240  
ggagaaacat cagtcaatat tagcattaat tattgggttat cattcttggg cttcatgtga 300  
atttgatttc ccatagtctc tcttgctgcc attaccatca tcttaattat caatacaacc 360  
caagaattat gttgtggaat att 383

<210> 17105  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 17105

ttcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcattcctc 300  
atgagttctc tgcagccatt acaccacaac aaaatgacat agttgaaagg aaaaaca 357

<210> 17106  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 17106

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acctatagaa gtcaataatg tttagatggg atatggagtt ttgaaacttat aatgttttat 120  
gttgttttga agtagacatt ggagaacttt acttttatgc ttttcctttt cttagttggt 180  
cacaatattt tcttcagcgc ttatcctatg gtgtttttat gtatttaaca gagggatcat 240  
gccaaaaaga gattggatag tcatcacttt gaacctaatg gaagtagcgg taaactgccc 300  
tgttatctga taatatattt agaacactct tctgtagtca gtattatatt tttttcatgc 360  
ttgatgtttt taactgt 377

<210> 17107

<211> 377  
 <212> DNA  
 <213> Glycine max

<400> 17107

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 ttgcgcaagt atccccattg aaaaaccttt attcaaacct ttcaaagtta gtgagaaggc 120  
 taaacgaaaa attaggggaac ttagaaaaac taaatcctta attgaaggcg taggtgataa 180  
 ccatagtga ttacttaaca agattggtag ttacttaaaa gtcattccag atactcccca 240  
 agcctcggaa aatacttcca aaatggtaac aagaagtacc taaaaattaa ttaatgttat 300  
 aattgaagat agtgaccaa gctcagataa cacaactgag ataggatcag tgtcagaaat 360  
 gaatataaat ccaatta 377

<210> 17108  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17108

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 ctggacaatc attgcccttt ctggcctcga ccactactt ttctccacc accgaccacc 120  
 acgccttcgc cagctatggc tctccttcg gtgcccgat ttccgcctcc agtgaagcct 180  
 caagcctcgg atcccattaa atggctatcc tatgaggagc tcaccttgcg atgtgaacat 240  
 ggtatttgtt tcaactacga tgagaaattt catcgcggcc acaaattgcg ctctaaggct 300  
 tttctactca ttatggacga tgatgacctt ttgaagacg ctgctccttt ggtggagccc 360  
 tcacccgaac cacctgatac ccatgaccca ct 392

<210> 17109  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 17109

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 actgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg 120

agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
 aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctgcaccac 240  
 aacaacaaga tcaagaacta tcatcaccag agtctactcc aagatgagta agatctttgg 300  
 tggacatata tgaaacctgt aacttagcca tacttgaacc tggaagcttt gaagaagcgt 360  
 caaagcagga catatggg 378

<210> 17110  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17110

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 gaatttgctt ggaaaccttg tagctgtgct taaaggacga attgcagaaa atccacaaat 120  
 taatcaagtc ttagaagcta tagatcaaga ggtatgaatt tataattcta cttattcgac 180  
 gatttaacta tgatatgata ctttaciaag aagaaacatt cttttaattt acgtacctac 240  
 aaatggttct actagtcaag atcatcaaac tacaacaat cttaactaga ggtaggtga 300  
 aatatacatg gtaatgaaga tgcgagccgg tgacataatg ttatttcacg aacatgattt 360  
 anatggtaat gaagatgtga gccgacgaca taatgttcaa g 401

<210> 17111  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 17111

atcttcataa atggtgacaa aattgtgttc ataacacggt tcatgaattt tttcgactct 60  
 cgtatcttta gagaagggaa ccaaagtgcc gatctcttgg caaattatgg tcttcatgca 120  
 agtgatccta tttggtggga tcatctcctc cttttatctt cttaagcttt tatttgtaat 180  
 aaaaggtttt tttttttacc agaatttagg tcttggtgag tctatttgca tgggttttgg 240  
 ttattatagt gtggtatatg attactagat tatattggtg tcaacataat tgggattagt 300  
 taatatgttg tgatgttgtg cacttcaata agttttataaa aaaatcattc tacattaaga 360

tgagtcacatc aattatt

377

<210> 17112  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17112

acatccactg acttagaaca tttgtttctt ctctcacaa accaaacttg gcttggattg 60  
gagacttcta tatattattaa agtgggtttt ttgtgaagta cctcacaaaa atagattctt 120  
cctanctagg gggattccac tctacacttc tcatagatat acaataaata tagtggaagt 180  
gggttctctt gatgagaaag aagaacagat ttctctcata aggagggtga tgatatgtct 240  
tgattcaatc ggttgtttta aaaaatcagc ttaggctttt nagaaatttt cactgtgcg 300  
tggtgagaca catgtggtgg tgcaagttga cactg 335

<210> 17113  
<211> 372  
<212> DNA  
<213> Glycine max  
<400> 17113

agcttcttat ttcttgctca tcttggtggt gaagctcctt ctccatggc ttattcctta 60  
atggatgacg cctcctctca cctattttcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agctccacaa 180  
gcaagcttcc atcaacttccg ttttcaattt cgagcgtctc catatattac agggcacaat 240  
cggacatagc attcaaaagt tattgtcgtt ggaatttgcg cacagcttca gctttcaatt 300  
acgagcgtct cgatatattt cagggctcac ttggacatcc gagttaaag ttattgtcga 360  
tcgatttttc tt 372

<210> 17114  
<211> 136  
<212> DNA  
<213> Glycine max  
<400> 17114

gaaaacagaa gctctgagaa aaatcaaagc ataataactt ttaactcgga tgttcgattg 60

aaccctgtaa tatatcgaga cgctcgaaat tgaaagcgga agctttaaga aaagtcaaac 120  
gaaaataact tttgac 136

<210> 17115  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 17115

ttcttagacg accttgtttg agtcgagaat actttattat ttatttggac aagtttgaat 60  
atgatgtaga agaaaatgaa tgtgagcctt tttccccttt gaaagactta aaaaaaagt 120  
tttaaaaata cttttaatta agatttgaat tttttttcct tattagtata tatgtgaggg 180  
gtagagagtg tcacaagata ttaggagcct ccatgggtta gcaagcttct ataaaagggt 240  
cgttcctaatt ttctctacaa ttgcatcacc tctcaatgag ctggtgaaga aagatgtggc 300  
atttacctgg ggtgaaaaac aagagcaagc ctttgctttg ttcatagaaa agct 354

<210> 17116  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 17116

tatgccccac tctcttgctc atactagcct tacttttagca tatatattct ttactttcct 60  
cactcatatt cttacttgag catcgaagtc ctttgttttg caagtcccc ctctgtcaa 120  
gggtacctct ctaagccgac gcgtgaagtt caggaccgca ctcaaccacg tccatcccaa 180  
cgtgtcacgg ttccggattt tggcaagaac aagtttaaat aattaaacca atgggtgataa 240  
gtgagatgtg aaagaagaac ctggccatct agctaagaag cgaccaatat acaaatgatg 300  
gattagagaa gatgggattt cttgttggtg ggcaagaaga ggctctctcc tcaataagaa 360  
ggttttctcc atatcacatt cttccactca ctcaact 396

<210> 17117  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 17117

gacacgcgtt nggnnttgat ngccttggat agcatacggc tactataagg tgagttcccg 60

ctgataccct gagtcctctg aggcacgcgt tctcttacat tatcatataa tggctagagg 120

tgatacttga catggattgg tttgggtaac tgatacaagg gaacccccag attaattctca 180

tgacacaacc tgctcaaaag atgtatgatt gtaggagaca ctatcatagc aaattcgtgg 240

gtcactgcac tagacaacac tatgatggca ctacatcaga gatgccgaaa tgctgatatg 300

cgcctatgtg aatgcaattg gcctcaagat gtgatttcca tctatgatac atcaacacac 360

tgtccccaac ctatggaact actatcaata agtgcattaa tacaacctca caaggacgaa 420

cggtaaaatt gcacagagtg aacccttcct gtgtactcat tctgacataa gactattgtg 480

atcaatgaat aatgttatat gaa 503

<210> 17118

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17118

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aaccctagag aaagagactt tgtagaagta tccttttctg aaatgggtgt tattttcgtg 120

accttcactg aaccccgatc acattgacgt gatcagaatt tcaaattgat gttcctttag 180

tagaatccga aatgccctca accctttcat gtagtgacat ggggtatttga ctcagagtat 240

tgttgttaac tctatttctg aaatccatag taatttcctt cattctggcg taatagagac 300

ttacgttggg ccaacaagtg tgaacgagag agagacctct aagtgatgca nagaggaacc 360

gatgggatgc tcatgat 377

<210> 17119

<211> 368

<212> DNA

<213> Glycine max

<400> 17119

ttcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60

ttcacccgac gaagacactg acaaaaactt atctattcct tcttggacaa agtatggcag 120

gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccatccttcg tcttgcccttg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccacat ggataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacta gtatggaaga tcaacgaaaa tggacctctt cttccatattg 360  
 caactctg 368

<210> 17120  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17120

tggcttttgt ttagacatga ttgatacatg attttttact tgttaggaatt gatttgggca 60  
 agattggatg agaggaagtg ggattttcga aatctgcact tatgcagaat tttgctgtca 120  
 aaataggtgc agcagaattt tggctttgtg cagaaaaatg cttgtgtgtg gttggctgtg 180  
 gaaagtctag tgcagaatga gttctggatg tttgctagta gatcccaacg gtcaaaatgt 240  
 aggcttatgc actatagact tccagtaaaa ttttgagatc gatccaacgg ttaacgaatt 300  
 ggatcgaagg aattgttact ggggtcttta agtgagaaaa gctgtgattn tggttagtgt 360  
 gttgagcaga gttttttct 378

<210> 17121  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17121

atctttaga aaggctagac atgatacatg tcanggtttg gtttggttca aagataaaag 60  
 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aactttacgc 120  
 aaaactggtc atgcatgcac ctatgtggac actcaagtgt caacttttta tggatcatgtg 180  
 atgctaagtg tcgcaagatt catttctct atttttagtca acccaacggt tccaaaatat 240  
 gttcttttat ccatttgtgc attcatccaa gtccatttcg ggcgttcgag aaaattttca 300  
 cagcattcac ccttcagggtg tatacacatt ttttttaaaa atcggttatg atcaatgaat 360



tttttca

367

<210> 17122  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 17122

taattcacat aaataatatg tttaaaaaag tgtataocta atgaaaggag caaaatgggt 60  
aaaaagaacc catacgttgt aagggaaata cactaatagt ttacgtgtga ggtcatgtga 120  
tagttaatca cttatcaatt aagtataggt cttgattgaa tgcattgatca cggcaaacia 180  
ttgatgggtca ctgtgaaaag atgctagtct aagatattct ttatgatttg aggtggataa 240  
ttgaatctt 249

<210> 17123  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 17123

ttacctctat cttctgtgaa cgtctgctgc gtctacaggg tggaaaatca ccattaaagg 60  
acctcttaga aactcaaaga tccagcctcc atagaaactt cacaagcaag tttcattaat 120  
aatactaagc acactacaat cttaaagact aaacatatga tgtattctat tattgtttta 180  
tgcttaactt aataactata gggtcactgt aaatcttctt ggtacgggtca ctc 233

<210> 17124  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17124

acttaattaa caaaatctaa tccggaaata tatcttatgn ncttgtttgt ttaaagaaag 60  
tgataaatca gcttcaaata aaacaacctg caattgagtg ctctcggtcca gtacgacaac 120  
gtcttggtata tggatgttca ctgcacccaa gaattgggtct tttgagatca atgctgaaat 180  
caggatctcc aagatcattg taaacatcat aatcatagat tctttcataa ctcttacgtt 240

ctccttctcc atttctctc aatagcatta gctccacttc tctaagtctt ctcaaccac 300  
atggtgtttg tgatggcaaa taagactggt tcagaataag ttaactcgat ttaaaaaaaaa 360  
aaagcctata 370

<210> 17125  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 17125  
ttctttacaa ttacaatatg cattcctcta gatacaattc cagtgcatac taattgggtg 60  
ggatattgat tatcatgttc tcttttgctc aagtggcatt ttctacttga agtctagaca 120  
ttgaatttat gaggtttttt cttccttatt gctaaatcac atgaggcata attaattaga 180  
aagagcatct atgcctaaat ataatattca aagtgcata gtcttattta tttatttgga 240  
taaacataat tgataattta ttaagataga aaggagaggt acgaatgtga gagaataaga 300  
aactaaatag taacaaaata aaaaggaaaa taaaaataaa aatgagaaac atac 354

<210> 17126  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17126  
tgtcttgtgc agaattaggg tatagaatag cctgtcacag atttttccaa cattccagag 60  
cacaccatag tgccaatttt gggaaaaggg ctctagaggc agcaagagga gcaatttttg 120  
tagagatacc taggttttgt aatctcatta ttgttagggt ttcttctata atgggttggt 180  
aaacactctt gttggggatt tctaaagaac aactgatgta attattttta tatctaattg 240  
attgtgtttc ttgtgttcaa tgcttctttc agtgcttaaa ttatgtatgc tcttggtctg 300  
atcaccatt tgtgtgcata gttaggtgac tntagcattg ngaaatgtat tgttgcctta 360  
gaacttgaat gaagcagaat tgaaacttag tcttacaag 399

<210> 17127  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 17127

tttttcaaac cacaacaaca aaaaatctag gtgtccaaaa cccctcaatt caatggggtt 60  
tctaagtttg aaaagtgaaa tttagaatga ggtaaatttg aagcaaactc tcacctcaca 120  
caagtccata acatcaatct aaacttgctc aaactgaatt tacacctaaa attccaccga 180  
atcaaaattt gactcttcaa cacccaattt tgccctacaa atggctcttt gttcactttg 240  
gtcattcggt tttctctcta gttcagccta acctttctca catgtcctaa atgacatttc 300  
aaactagtat taactcactt taacctccat ataccacaga attcagactt 350

<210> 17128

<211> 357

<212> DNA

<213> Glycine max

<400> 17128

tctgcttctt ttccctataa ataggggaat gttgttgtaa caaaaagatt caaccctcct 60  
gggatctaag attcactcaa aattagtgag aagaatgttt ctgtgaagag aatccaagcc 120  
gaggcgcttt cgtgacgtgt tcgtgggtga ttacgcatag attgtcgacc gctcttcatt 180  
cgctcttgca caatgttcgg tcttcagccg gtaagttacc gaaatcgtae ttttcgatgc 240  
attctatgta cccttagtgg tcctcatttg tttcgcgagc tttcatgttc attacattta 300  
ctttccgaac ccccttggtga cgtgcttttag atatttattt aagtcattgt ctcggt 357

<210> 17129

<211> 354

<212> DNA

<213> Glycine max

<400> 17129

ttcttctccg aagagcatgg gtatttccag tttcctgaaa atatctaaaa atcttgccag 60  
atgacgatct ttttatttct tggaaggat cagagggtaa ggtacttcca caccttcac 120  
cacaactttt tgactcctac tcttctttgc attcttatta tttttttcat tttctatttc 180  
tttttctttt tcttggtcct tctattcttt attcttaacc attggttggt cctctttttc 240  
ttgattactt tcacctctca cctcattttt cttgcatca gtacttttct tgatcatcatt 300  
tttcttctca tgtacaacat tatcctcatc ctcaacctcc acaaacttt tact 354

<210> 17130  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 17130

tctcaaggaa gtttttctcaa aaaagcttct catggaagct acctagtcta taaatagaag 60  
 catgtgtaac acttggttga actttgatga atgagagtct tgtgagacac aactcaaagt 120  
 tcaacttctc tcccgcctttt cctccttcaa tttcatgctc cccctctctc tttctctctc 180  
 tctttctttt tctccattga agcatccttt ccaagcttct tatccaaggc acattcttgg 240  
 tggcgaaact ccttcttcca ttgcttattc cctagtagat ggcgcctcct ctcacctctt 300  
 ctcctttgtc ttccgctgca tctccatggt ggaaaatcac cattgaagga cctcattgaa 360  
 gctcacagat ccagccttca tagaagctcc acaag 395

<210> 17131  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 17131

cctcgatgga gaagcagtca caatctatag aatttatggt tggacttaat tgtaaaaact 60  
 aactcaaggt aagaattgcc gtcacttata atttcacaat actaccagct agttgatgtc 120  
 accccaacaa gtcgggagat ggacgtctca attatgaact ttgcaggatt aggcatcttt 180  
 gtgaggggttg ataacaacct tgataacatg tgaccaata agccaacaac cacccttatt 240  
 ttgaagccat attagcattc aagtttaggt cttacttaac ttctaaaagc tagtttgata 300  
 ggtgaaaatt gccccttat accactagtc tatgtg 336

<210> 17132  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 17132

caccgacct cctcctctc ggggtccgga cccaccccc caggctgact tgacgtgaca 60  
 caaccactga ctgaaaagg cgctgacgtg gctattggac cgaagaactg gaatttgaat 120

tagctatatg ttaaatttgt tccgaaaaag aagaaagata agattaccta aatttgacgg 180  
gcctgcaa at acaggcattg accctaccca ttgcctat tt aagatcttat taatgactag 240  
cttaagaata tattaataa aaatatgtaa ggagttcatt tttaatggct taaataggat 300  
atgaaatttt ttattttaat ataagagcat cgtatacaaa tgtgggaatt tatttttagc 360  
tgatttttac aaaagaataa caatagtatt gttatgatca tctctaagt gcaatatcac 420  
acatcatcaa aaca 434

<210> 17133  
<211> 675  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17133

tgcatacctc gcgtcctaac atacttcgcg ccgcggtaaa aataacttct gtgggcacgn 60  
aggcgactca cgagcgcagc gataantcgc tgtgtcgccg tgttgagaac attgggagaa 120  
cgcgagaaca ctccataagg acaacgcct cgtgacatcg cggtttncct gcacaatatt 180  
accgtcacta tgtattgana gagcagacga caaatagtag cactgcaccg atgtgtattc 240  
tctatgtgtg ctctctcgaa ctctccacaa tacttttaac ctcaatacaa gaaccataac 300  
atgcacacta gagtcgctag atctctacat gaggtcgtca caccaatcta taaaagctc 360  
aacagactga ctgacactct aggtaacact atgtatttag angccatgga atcggaatat 420  
cttcatctct gccacacagc atagattaac ttcacattcg ctccgaccac cactctggga 480  
tgacatatct atttctgcga atctctcac acaaaagtta gtccaaaag ctcagatgat 540  
cttctgacc agcacttcat gaattctgaa cccatccaca catcctctac aaattgtgtt 600  
cccaatgaac aaattacccg aanggttaat cccagttct attctttcta tccgccaacc 660  
atctgacgtg attcc 675

<210> 17134  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 17134

atactcagct tgttttcttc tatgtaattg tttaaaacaa tccttattaa cactttttta 60  
 ctttctggta gaacctcaga gtattttaca agactcttag atctgagatt tgaattaatc 120  
 accacttaaa ctctctcact ctttttcgca aatttattat gtaagaatga aatccaaaat 180  
 tctttcacat atgaatcata tttattgagt acttgagtat cataacttgaa tccaaagcac 240  
 aagaatggta ttataggaaa tgatacagta cacgaagctc cattttgggt acttgcaata 300  
 tccattcaat tgagaaacac tgctct 326

<210> 17135  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17135

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 cctatcgacg atgacaaaga tacacgtgtt gcccttgtaa gagggtaatc ccacgataaa 120  
 gtccatggat aaataatccc atggttgtag tggtatcgga agaggactca acagcccatc 180  
 tggttttctg ttatcgtatt tggtacattg gcacgttaag catcctgcta tgaaggcacg 240  
 ggtatcagct ctaacggaat cccacgtaaa gttttcttgt aagcgatgaa gcgttttctg 300  
 aatccccatg tgaccacctg tcggagattg gtggaatgct tctagtaaca acttagtgaa 360  
 ggaggaattt gagggaatcc anatacggcc tctgtgtaag atcanataag cagttaacgt 420  
 gtactctgg 429

<210> 17136  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 17136

acagagtggg acctggagat atgttgcggg ggtcatgaga actttgggac gttaggtggg 60  
 gtgctattgc ccaaaaccaa acttgaccaa tccccacca acctgggcat agtcagtcag 120  
 tgagaacctg tgatgtacct aaacatgcga gcttctggca gtccaccgat taaagaacaa 180  
 agaccacata acaaggaggc ttgtgtgggtg gctgaccaac tatggatctt gagtgatatt 240  
 tggatatatg cctctggtaa tcgattacca aggggggggta atcgatta 288

<210> 17137  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 17137

agacgctcga aattggatgt tgaagctctg agcctattta cgcgacatat ctttttactc 60  
 ggatgtctga ttgaagcccg aaatatatcg agacgctcga cgatgaatgt ggaagctctg 120  
 agccaaatca cagacaata acttttctact cggatgtccg attgaatcct ggcatatatc 180  
 gagacgctcg agattgaatg ttgaacctct gagcgaatgc caacgacaat aactgtgtac 240  
 tcagaagtct gatatagtct cggaatatat caagacgctc gaaattgatg ttgagctctg 300  
 acaaattcaa caacataact tttactggat gggga 335

<210> 17138  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17138

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 attccnccncc ccactagag cccttgacct tttgattcat gaactccagg cacaacaaaa 120  
 cgcgcgtagt tcaggcctga tgcagacgct actctctatc tggcagctga cgggacactg 180  
 caatacatta ctgtaacact gccagaatgg agctacagtg taaacaacgt ccgtcagata 240  
 atgtcaaacc tgcgggaaca ttggaaggct agcagcgcac ttaaggcatc caaaggggac 300  
 tataaacaaa gggatatccat tacaatctgc tcctcaagga gaacctata ctttataaac 360  
 tctgtttgat actgattcga gaatggaaaa tggctgaccg acaaaccaaa tttgtgagga 420  
 agaatttctca tcgagcctaa acctgtgaca agatcgtcaa caacccaaac tcgcgtgcct 480  
 cgacgacaaa caagctgaaa catcaagctc ggctgtactt gaatacaaca tctatggaat 540  
 caatccc 547

<210> 17139  
 <211> 644  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17139

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tgtaganacc cccccccccc ncncaagcga tggcattgaa acctttttgat nccntcgaca 120  
ctatcagaag acacaaccnn aannctctac gcggtgacgc atatgtaggt agcgacaaga 180  
tgtatatcgt taacagtgtt tagtattcgt attggagcgt gacgtctaga tagggaattg 240  
ttcttagtat gtatacacga tgactggaag aacatagnngg tgaaagagtg ataaaaggat 300  
cattgtatgc ctggagaaat gatcggctac tgaaactcag atagaacgga tgtgatggaa 360  
ctgtagtgca tgggatgaaa tagactagag tagattgcct aagaactatt tgtactgttg 420  
ggaagagata tctctgctaa acgtgacatc tgtgtggcct ctattaagaa caggtggtgg 480  
tggtaatatg caatgaagtt cattcatttg ctgtgataat taataagggt aggccttgtg 540  
gagtgggtga aaagagaaga ccaagaaaga atgttctgca gttgaccatt tagaaatcat 600  
actagcagtg tcagcatacg atattgacgt cttgaatgaa taag 644

<210> 17140

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17140

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tgacgaggac caccatagcg caagtagctc aacagtccag cacgatagcg atgacgacga 120  
tcactacgac gcgagtagct cagtaagagt cattttcggg ggtgaatagc ttgaacaagg 180  
tagagtgagt cacaagaatc attctcgggg gttgtgttac gatgcctttt cgagtttttg 240  
taaaccctgt gactcggagc aaactcgcga gtttaccaaa cctcgtccga gtctacgcan 300  
aatcggacga gtttactccg ngttcgattc tgctttcgat ttaacttgcc aacccttagt 360  
ag 362

<210> 17141

<211> 581

<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 17141

cacgatacga cccgcggtgc cgtacgacgc tacagacatt ggcgtgatct cgcatacaca 60  
ccaccncnccg ccgcatggat gaaacctgta gancngtggt gaatcactag acaagcagtg 120  
aancttgaga atactcacgc ttaacaacag tacttttacc cacgtttttc cgaaacctat 180  
gtgacagtgg atttctcata tgtaccaata tgtaactaag catgtgaaat ggtcgcatca 240  
atagatgctg ctatgacatc aacctttgga cacatccctt tacctaaca ggaagtcgat 300  
actatcagta cccttcttca atatacagaa tgatgcacca tgcaaacata tcgtaatata 360  
agaaatgcc a cactaataa tcagcctaact actcataacc aatgaaatgc ctcatatccg 420  
agttattcca tcttctaate ttattggagt atctggagaa ttaaaaaaaaa gcggctgggt 480  
ctcccgttca acataaatct aacgtttaag tctattaatc actcaacaca gcgcgttatc 540  
atattcaaca tgcacactat gcacagcaaa gagacggaat c 581

<210> 17142

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17142

tcanaacaca gcatcacaga atctaggtgt ccaacacccc tccattcaat gggttttcta 60  
ggtttgagaa gtgaaattga gaatgaggta aatttgaagc aaactctcac ctacacaag 120  
tctataacat caatttagac ttgttcaaac tggatgtaca cctaaaatct caccgaatca 180  
aaatttgact cttcacaccc aaatttgccc tagaaatggc tctttgttca ctttgggtcat 240  
ttgtttttct ctctagcaca gcctaacctt tctcataagt cctaaatgac atttcaagct 300  
aagattaact cactttaacc tccatttacc acagaattca gacttaacct tccaactctc 360  
aaagcctcac ttctttttcc actcataaca tcacattctc ac 402

<210> 17143

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 17143

gtctatgtgg ataaaagagc ttaanaactg agatgttaga aaaggttggt tatccattat 60  
 aaatgtctta atcattttct caaagatgat aagtctccca tcccgaaagc ttcttcactc 120  
 ccaaccttga tcagaaaatc aaacttattt tcaaagtttg attttaaatt agggtttttg 180  
 caacttggct tacaactaga agatcagtat aaaactgaag atcagtatta aacagtcttt 240  
 tgtgttccga atgctcagta ccaatggaca gtccttcctt ttggtttaaa agtatcacc 300  
 tttctcttcc acaaagccat gactaagatt tttagcctat ttgggacaac atcattgntt 360  
 acatagatga tctccttttc tgttcaaaag acattgtctc tcataaaaac tta 413

<210> 17144  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17144

tcgtaacat gaagttattt tcttaccxaa cactcacgta ttctctccct tttagctatt 60  
 ggcccaaaca acctaacttc ttcaactttt tcttccatgg aaacttaacc tttaaagatc 120  
 tccacctttc ctagttttcc tgggttggtat tggtcaxaaa ccttcattaa ttcttttcat 180  
 ccttcacaag ttaagcgagc ttcttctttc ttttcttttg agaatagaga tacacaccat 240  
 tttaatattat tctctctctt gtcatagttt tgtaagagct atggatggat tcataactctc 300  
 ctaccatata ttaccanata tttatgaata tatgtttttg gtggtggttt aagatgttta 360  
 aacacataat gaccaaggtc ttgacgttca tcaca 395

<210> 17145  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17145

nttatcttgc caagttcata caaaagtgtt acaacttaac ctaactgttt ctaattatat 60  
 gggccatcaa atctatcatg tggtgacagt aattgattag cctgtgaatt tcttcagggg 120  
 ctgaacacac ttcagtgatg gcctttgctt tggttagtag tcgcgggagg tcttgacttc 180

catttaaggt caaggcgaac ctatccatcc acatgggtcgc ttcttgatgc aatgcatcaa 240  
tcaccctccc tcttgcttcc ttttcggcgg acgcttggtgc gaaatcctcc actagctttt 300  
gttcatgagt cacagactgg gttaactctt ccttggactg ccctatgatg gctagcatgc 360  
ttcgctccgt ggcttccaag tgttgagcca aactcctctt ggatcttgag caaagagcta 420  
aatcttcctt taa 433

<210> 17146  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 17146

tgtacttttg aacacttgct tatcttatcc agagctttca gtttctaaac taagtgcttt 60  
taaactattt gcataacttt tgttgattct gttacttatg gtgtgtgtca cgtatttgtg 120  
ttccattcct tgtttagtta tgatgcattt tttgatgata ctcaagtcac gtgtaacttt 180  
tgaacatcta cctatccctt gactggagat atctttcaag catgcttttg atcatacaaa 240  
acttttcatt tctattgcac tttgatatgg gaaaagcaag attttccttt catgattcta 300  
gctagtaaac tctattctag tagtcctact tctattgggg ctgacacctat gtctggaagg 360  
ttgacatact ttcaagtga tcttcgtacc tttcttgatg cttattgatc a 411

<210> 17147  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17147

tctagccaaa tggacttacc ttgtattaat tcctttgata gcccttttga gccttgtttc 60  
cctttccttt gttngaagct cactacaagc cttaagtga aaaccatgat atcatcatat 120  
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180  
cattggacaa cttgttttgg tggctatgct tcatgatgta ttttgggcca tacttgatgt 240  
acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggctat 300  
agaataaaaa aaaaaagaat aaaaaaaaaa attcaaaaaa aaaattcgaa aa 352

<210> 17148  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 17148

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ccatccttgc cctatgaccg tgtgaacgtg cacaccaaac tcagcttaga cataaaatca 60
tggtttttct tccttcaagc ctttttaggc ctttcctcca tcttagatga taataaatatg 120
caattactct ttgacttacc ttccttggcg tgtcaactgt cgggataaac gccggtatat 180
ctcctcaggc taccaagcca accacactac tgagtgaaac tacattaacc ctaacctcac 240
cgtattgcac tcactatata atttcccctt atgcgagtaa actcagctaa gctatcctta 300
gatcttactt atggccacac tcaccatttt tgtgacttga cttacactta cctccgacat 360
aaggattata ggttatgggc ccttattcct tacctgtcat tttatcaatg ggatcatgga 420
tgc 423
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<210> 17149  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17149

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cgggcgacac aactncgcg cgaacgtgtg atcaacacgc gcacaggccc gatnanctcc 60
cnnccccccn nccccaccga gcatggaacc gcttgatncc agtgaacacc cagngacact 120
atagacaacc caagcgtgtg aacgtagata tagtccacca ttatacaaca tgttgatcta 180
tctgctagga ggacatcaga tatatagata catacatata catatatact gcacgtgaga 240
aatcgagact cacgggcgca tatcaaagtt ccatacttac tggattcact gggatagcgc 300
gtgtatacta catacaactc atatcgccat actcaatcga cccacaagat tccatagccg 360
cgctatgaga tgatctgaaa aactcgagc cacgcgatga acctgagaca tgagaaatgc 420
gacctgagac taaaaactgt gaagagacga gataacggca aggcaacatg tgtaattcgg 480
aaaatccgga aaagcacgag ggatggacat tggaaaggta aatgggaccg agacn 535
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<210> 17150  
 <211> 406

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17150

cgcgaatgca aacatttgga aagttagttt taccagaggg acactactct taaaacaaaa 60  
atggcataca acctcctccc ataaatacaa acatcaatgt aaatttagag caagcttatg 120  
tgcataatttc cttacgaacg ttcacttgca caagacattc tattaactaa gaaaaatgca 180  
cccatataca atcaaggcag cttcgttacc tagattatth acatgtactt ccaaggtgta 240  
tttgttactt acatcacaca catcgtcttg gctgaattac atacatgcat actcaaagca 300  
ntttggggtc ccaaaaattg acatgtgcac atcttggtat tcctaatacc tatacataca 360  
ccaacttcat gatgaatcct gactatctac acaataaggt gctaca 406

<210> 17151  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 17151

tgcatgattc atattctccc cctttgtcaa gcatattctt ttgatatca tcaaaacctg 60  
catgatttac attctcccc tttttgatga tgacaagcat tatccaaggc ttgatctttt 120  
tgacatcatc aaaatcttca tgatttacat tctccccctt ttgatgatg acaaccactt 180  
gtaggttagg agcaacaaca aataaaaaaa tatctatttg catatagttt actccccctt 240  
ggttttgcaa tgtttgctta tatgagacaa ttgaagattt catatttttc atatataaaa 300  
agttgtctca tataaagaat agataatttt cttactatth atctttatct ttctctcccc 360  
tttgcaacat caatacaatc atgaatgaga ggagaaaatg tac 403

<210> 17152  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17152

ctcagcttga ccattccctt gcctctttgt tggtttgcta ttangtactc angcacatca 60  
cgtangtgcg gaggtgggtg attcttgctc aaaactttgt catgcttcag tagatctggt 120

caaatacaat ttcaatcctt taaatttaac ttcaaacata agttttaaaa aaaataaaaa 180  
acaataaatg ccaattgtat attttaacga taacatcaac ctattacatt acctaggtct 240  
tttggattag tttcgaagtg ggctttcaac ctaaaataaa agcacaagtt tgcagaaatg 300  
aa 302

<210> 17153  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 17153

tcatactcca catatcttgt tcttgatcga gccatatata ccatatagta ggtgcctata 60  
aaaaatcagt agctacctct tccagaatcc atagcccat gaccaaggtg tcggcctgta 120  
ctttcttcac aacacaacat attacattct tggcatgtcc tacaccaacc acatatagta 180  
gacaccatct agaatgttgt ccccttcatt gatttaacgt cattcaatta ggttgctga 240  
caaacaattc ataaagtgat atcaaaaaat cgaaatcata agcaatttaa cattatttat 300  
acatcgttaa ctgatatcaa gatattcaag acataaaaga catcctagat cgggaaacat 360  
aatgacaga gaatgaatac c 381

<210> 17154  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17154

ttgacctatg cgccaanaaa atttcagatt gcattgacta atctagatcg cacaatttca 60  
aacttgagtg ttgttcacac gtcaattcat cattaacatc cttgtccaat gtctcaaaaa 120  
aagaaacaat ccatattgca ccaactaaat caacaatgca gataacatcg attgttcaca 180  
cgacaatgaa tcattacgtc ctctattgaa gtgtaagtta tttattaaaa gctctcatag 240  
aaaaaatgg gttattttaa aaacataaaa aaatcacatt ttttaaggtgt atttttcaaa 300  
aaatcacaac gaaattgtat ttttgtatgg tatttctaga aactacataa cgaanatgaa 360  
actttngtgt gtaaatttga aaaaatatcc tacaaaaacc tgttttcatt nntgtgtttt 420

tcctcaacgg aataatattt tca 443

<210> 17155  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 17155

atgaagctaa ctaaagtaaa gatacatgaa cacctctaca ctacatatag tgagtgtttg 60  
ttaaaaactt tcccatgtta acgaacattt tatccaataa cagcccaatg ttgcttctat 120  
aattacttca tgattatatg agaatgcttg gttgaagcgc ctcacacgat aatccataat 180  
catgtaccct tattttaaact ttacacaca cttacaagtt aacagaatac ctcacgatca 240  
aacctatccc cagctatcac aattcaacct tcatctagat atttcttaag attgctgtcc 300  
aatacaattt atcctataaa aaaaatcttt actaaataaa atggtagggt ctctgagcat 360  
tgtagtccaa tattaaatct tttcctgata acataaaata attttccttt cttctatttt 420  
gagttactct ttacagtgg aca 443

<210> 17156  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 17156

gtaatgtatt tataattttt ggtgtccatc attattatta taaatgatgt aagtaaaaaa 60  
taataattaa tattacataa acaaaatata atgacaaata ttatttaggt gatattatta 120  
ttaatatttt aacaaatttg cggcggagtt aaactaagct gcccaatggc cagatttata 180  
atgacttgct tgctattcta caaaaggata aaaccaaag tcaacgtcta gtttggttaa 240  
ttacatgaac ctctgatgg ctctgactgc aatttaaaga aaacagaaaa gaaacttgct 300  
tatatgacca ccatttctta ttttcacaca acattgggtat tttttatgtc taaatccaca 360  
nacttttggt tagtttggtc agtaaaatca gacataaatg aaatacacct tattttaatt 420  
atctatgtga at 432

<210> 17157  
<211> 418

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17157  
  
 cttcaaactc agcttggttaa caatatcctt tanataagaa aaatgtttat aatatcttat 60  
 caatactaataa taatgaactt aaaggcgaaa tacggaagat aaaaaattac aatgttcata 120  
 ttttttatga tttatgcatt taatatTTTT tttcttttaa tttcttaact aatatctaaa 180  
 agcgctaatt aacaagaacc ataaaagtaa accaatgagt aactaacaat cccggttataa 240  
 aaaaaaaggt tatcatcatg tcttttttgg actaatcata tcctcctatg atttcatttg 300  
 acaaataata aagttaaaaa tgaatcgaaa ttaaaatata taggaccgaa taggagttat 360  
 gagttaatat atttaattaa gacacatatt tggttaacaan attgatacag cttgaatg 418

<210> 17158  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <400> 17158  
  
 ttctattaag aagctgatac tctattctga tctcctatct aatagttcgg ttgtacttga 60  
 tagtatagtt attaaatcac cttagatagg atcatcttat caccactaat ctatatattt 120  
 taaaaatatg ttgattctag gagttagctt tccacagcta tcaccacttg tttatgtata 180  
 catgaaaaca ttcaagagat aatcacactc agattattcc cctaaatttc tttctttaac 240  
 attgccaaaga aggctgtcag gcagtcacaaa agtggtggaa taagtgggtca ttgggtttcaa 300  
 agcccaaaaa gatgtagtat gtgttacatg ggaatgggca tagtaaccaa tttgattaag 360  
 accttctcgt ctgatac 376

<210> 17159  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 17159  
  
 nttgaaatca aactnttcca ctggttatcg attacatgaa actggaagtc gattttccaga 60  
 gagtaaaact ctggttaactt aaaaaattnt gagaaaaact cttttgaaaa aaaaaactgt 120



gctatgtttg ttttttgaaa aatcttttca atacttccca tgtgaggtct tcttgatttc 180  
 ttctctctaa tcttgaaatc aaacttctct tgattcttga atcttcttga ttcttctctt 240  
 gaaatttata ttgatcttga acttgntgac tcaatcttga aatcattctt tngagctttt 300  
 tgtcatcatc tttgttatca tcaaaactac ttgaatcaac ttgattcatc atcatgaagc 360  
 ttgcttctac agtctctgcg tgtcaacggg ctcac 395

<210> 17160  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17160

ttntgtttta tttcctaaac actttttaat gtctgttcat tttctctttt ccaagttctt 60  
 tcttctaagt tagtttgga tctttcaccc accaaccat cccatgtaac gaaaacatat 120  
 tangtaaagg taaatcaaag tgttttatcc aataatgtca ntccaaattg gtagttggaa 180  
 tacttcccaa ttaaaaacga caagttaaata gtaaccaccc tataaattaa gtggaagtat 240  
 taagccatt tgggctaata tgggaagatt gagtcagatt gacagaggca tttcatacaa 300  
 aagagtatta ataatagtaa catacaacgg tattaatatt atggattaga ctgtg 355

<210> 17161  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 17161

tcttagtctc aactgatgaa gatgtaattc gggctactct atgcactcct ctaatgacaa 60  
 tagcatcatt tttggcacta aattgctagg agtttgaagc catcttctca attaaatttc 120  
 tggtttcaat aggggtcatg tctccaaggg ctccaccact ggcagcatca atcatacttc 180  
 tctccatgtt actgagtcct tcataaaaat attggagaag aagctgtca gaaatctggg 240  
 ggtgagggca actgacacat agttntttta atctctccca atattcatat aggtctcttc 300  
 cactgagttg cctaatacct gaaatatact ttctaattgg cgtggtccta gaagcaggga 360  
 aatttttttc tgagaatact ctctt 385

<210> 17162  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17162

ntgacggggtt tgggagacga gtttttagagg gggtttgaca ttttaatat gagtttggtg 60  
 tgatgagata aagttgtatt gatactaatt ggtttaatca cattattgga gtacgatgag 120  
 gaagatgaat aagatactat ggatgctgtg taaagaatgc tagccatggt ggatataaat 180  
 aaataaagggt ccgacaaatt tgtggggtag cgttggtga gttgctcact tgctcagcag 240  
 ataattttat ttacgaagct atgcagtaca ttacattgat gcttgtgtac cttttatgcc 300  
 actagtatga gcataaatca catgcgtcaa gttttccatg tgcatactac gttactacct 360  
 gcttatccgt ccaattgatt agatgtacta ttat 394

<210> 17163  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17163

ntcacgctct cttcttctcc atcttagctt tcacgctttt ttttttttg catctaaggc 60  
 ctctgttctc cgtctacctt gaagctcttt cttctgcac tacctgaagc tctctgttct 120  
 ccaactacct tgaagctcat ttctgataag ctgcagcacc gtttccgtcg cactcgagca 180  
 tcgtcataac tctctacttc ttctccttcg ccaccttacc taggtatggt tcgtctaata 240  
 ctgtataaat atttgattgc attcatgtat cgcacactta gtgaagtaaa catgactagg 300  
 gtatctcata ttttaactgag atctccttac ccttactgtg ttcttgataa gaggagcacc 360  
 cc 362

<210> 17164  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 17164

tgttagcaatt cttctagget tggagtcata acatgcaatc ctctagaacc cttacctccc 60

actcttttcgt tataaccgaga ctcggaacc ccaataagtt ttgcctttnt aatgtactcc 120

gaacaaaact taatagcttt ttttgccacg taccttttaa caatagatgc ttcaggatag 180

tgtaaattct ttgcataccc ttttatgac ttcatgtatt gctcaaccga atacttgcac 240

tggaataaaa caaaaccaca acatttaatt tccctcacca gatgaacaat taatagaacc 300

atgatgctga aaaacaaagg aggaaaatac atctccaatg gacataagat aataacaacc 360

tcattttcta cctcatctaa cttgacagga tcaatgcact tgctacatat 410

<210> 17165

<211> 372

<212> DNA

<213> Glycine max

<400> 17165

tcaccggatg atgccgatcg aacatttctt aatttacatc atccaatttt tattcagggg 60

ttgaattgaa taaacaatgg ccggtgtcgg tctttatatg gccccgactg atatctttca 120

gccgacattg cgcaatttct ttacaaaacg ctggccgata gtgttttttt ttacgctaga 180

ggaagttttt tgtttttggtg ttgtataaaa aatgtacaac gcaggctcggc tatgttttac 240

cgtgcgagct caaccgatgg ttcggtccga cagacactgg catgttggtc ttctcattta 300

cgaggctcag acaacgttgg ccatcccggc aaaaacaaaa aaaaacattt ttacggaatt 360

gatcgaaaaa at 372

<210> 17166

<211> 394

<212> DNA

<213> Glycine max

<400> 17166

tgtctcaacg tttatgcgag acggagacca acatgctagc tatcatcgcc aagtaccaag 60

aagagttagg tctagccacg gccacgagc atagaatcgc ggacgagtat gctcaagtat 120

acgcggaaaa agaggctaga ggaaggggtg tcgactcttt acaccaagag gcaaccatgt 180

ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccgc ttgttagcca 240

aggccaaagc gatggcagac gcctactccg cccccgaaaa gattcatggg cttctcggt 300  
atgggtcaaca tatgatagac ttaatggccc acataattag aaatcgttag gaaactogta 360  
tgggctctca gaccctgact agatacgact tcct 394

<210> 17167  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 17167

ctaataaatt gggctctaatt tgcccatcag acatggcaag ttaagccaaa ttttaatttac 60  
tttacctcac ggcatacaagc aatttgcttg caattccttt tcttctgtta gagggagcaa 120  
cccaaattggc cctaattgcc caagcagcga tggttggttt gctatcacag aagattgcac 180  
cttccatcct ttcaaaatca ctcaaggaag caactttttt ttcaacctcc ctttggaata 240  
taacattccc aaaccgaaaa gtggtagaac gcgtcctcac ttcctttttc ttcacgctat 300  
caggagagcc agacacaact ttgaatgcct tttcaatggg ttctgcaacg aggcactcca 360  
caaccctgtg a 371

<210> 17168  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17168

tcagatcaaa gcaacacaaa atctaggtat ccaaaacccc tcaatttaatt ggattttcaa 60  
ggtttgagaa gtgaaattgc ggatggggta aatttgagc aaactctcac ctacacgag 120  
tctataacat caatttaaac ttgtttgaac gggattcaca cctaaaattt caccgaacca 180  
aaatttgact cctcaacacc caattttacc ctagaatgg ctctttgttc acttttgtca 240  
tttgtttttc tctctagcac agccanact ttctcataag tcctaaatga catttcaagc 300  
taggattaac tcaactntaac ctccaaatac cactaaatcc agatttggcc ttccaactct 360  
caaaacctca ctctttttcc actcataaca ccatattctc actttct 407

<210> 17169  
<211> 427

<212> DNA  
 <213> Glycine max  
 <400> 17169

tgaccaatcc cgaccaacc cgggcatagt cggtcattga gaacctgtga tgtacctaag 60  
 caggcgagct cctggcagtc aacagataaa aggaaaacaa gaccacaaag caaggaggct 120  
 tgtgggtggct ggccagctgt gaattttgtg taatatgtgg attgtggcct ctggtaatcg 180  
 attaccaaag gtgagtaatc gattacaagg cttaaaattg aggacaggag gctaagatgg 240  
 tctctggtaa tcgattacca aagggtgtaa tcgattacca agcttgaaaa cgaagtcagg 300  
 aaacttaagg agcctctggg aatcgattac cagcctgcgt aatcgattac acagaggaat 360  
 gggtcactgg taatcgatta ccaggcatgt gtaatcgatt acacagtgta ttattgcata 420  
 attcatg 427

<210> 17170  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17170

tatccttatg gctggcctcc ggatttcact ccccgtgcca ccccgaaaga tctaagccaa 60  
 gcccctactt ttgaggggca actccgcct tatgacgact atcccggaac agacgatggg 120  
 gaaggagata cccatcttgg cccctgctc cacctcaaag atccgtcccc ccatgaacta 180  
 cccccaccga acatagtctg ccatatccca gcctcaccca caccgtaaa agaatctgtt 240  
 cccttcgcgg aagataaggg aaagattgag gcgcttgaag aaaggttaag agcagtcgag 300  
 ggccttggca attaccatt ctcgatnta acagaattat gtctcgtgcc caatatcgtc 360  
 attcctccca agttcaaagt atcgactnt gataagtaca aagggaagac atg 413

<210> 17171  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 17171

gaactagttc cgctccggag tacgacagtc accgctttat gagcgctgta caccagcagc 60

gcttcgaagc catcaaggga tggctgttct ccgggagcga cgcgtccagc tcaaggacga 120  
cgagtatact gattttcatg aggaaatatg gcgccggcgg tgggcaccac tggttactcc 180  
tatggccaag tttgatccag aaatagtcct tgagttttat gccaatgctt ggccaacaga 240  
ggagggcgtg cgtgacatg 259

<210> 17172  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17172

ttgtgaactn tanataatat tagctagaat ccattatttt aacttaatgt acaatcatgt 60  
acaagatgat tctaataatt aatggctctt ttacgagtta tgacgtacgt aaaacgatgc 120  
acttctatgc ttaattcggc atagttttta ataaatcaac atatataaga ttcgtatgac 180  
ttcatgactt cattaattaa tgattntacg aatttcatcc atttttttta tatcgtgctg 240  
ccttttttac ttcttctatt ggaattagat aagataaata catgtgtcgg agtaaaatac 300  
agataaatta acattagtta cacaataaac gggtgtacat gtcagatata tatgtggggg 360  
ctatgcaaca catctcatgt tcaaagagaa ttcgtcaaata gaaatgaggt tatcaactca 420  
atcgagtag 429

<210> 17173  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 17173  
tgcacttata gcttctaaac aaatatggag aacataagta tgtttctcct acttcaaaat 60  
gaggggggagt atattgataa ggatgtgaac attgttctat ccctactgtg agatgctaag 120  
aaattcttag ttaacacatt ccttactcct ttcgtgaagg gtctttctgc aaagccttat 180  
atgtagaaat gtcatctatt tcttataaat ccttgggtta gaataatcca agaaaagtgc 240  
agaaattcct tagatatatt cttaggatga aatcattgta attcttagca agacaaaaag 300  
aacatgtgga ctaagtatct tttgtccttc tccactttgg ggctttgtcc tttctcactt 360  
tggccttcgt ccttctccac ttggacctt 389

<210> 17174  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17174

tgattcatga ttcaattcat gtatctttcc attattaacc gaaatatcac taccaccaac 60  
 agctctcttg atggagcttg ggtatttcat taactgacca ataccaaaac cagaatttat 120  
 tgtaacacca gagtcttttag caaagttcac ccttttatca ttgttcaaac atttattggt 180  
 ccttatgccc gaattgggtg attgtcttcc tgtgtggccg taatcagaat acagtttctt 240  
 gggcatgata gggctgccat cattccacan aatttacta gtttttgtct ttccccata 300  
 ttgatcatca aattgcagac atggtgaaaa agataaacc ttggccacat ttttaggttc 360  
 tgatctagct ctaccagaag cattaaccac agcagacata tatgtctttg agttaagctg 420  
 a 421

<210> 17175  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17175

tgtactgtaa tagaattggg gcggtcatga ccttatgggc tcatattggg aaccgcgaca 60  
 ggtagacttg ggatattttg aagatatatg ctaatatatt tagaattttt tttaacaaaa 120  
 aaaagaaaga aagataaaga tatacctaaa atttgaacgt gtcttccaga gtacaggcca 180  
 ttttacccta cccatttggt tattttaaga tcttattaat gactagctta agaatatatt 240  
 aattaaaaat atgtaatgta ttttcattct taattgcttt aaaatagtat attgaacant 300  
 ttttatttta atataaaaaa cattttatta aatatgtgtt aatcttattt tttagttaaa 360  
 tttttaaata aattaattaa cattatntat tttgtattat cattctccta a 411

<210> 17176  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 17176

tgtttgtcgt cttcaacggt ctctctacgg gcttaaaca gccagccgac aatgggtttac 60

caaactatca agtttcttag tctcccatgg gttccaaca tctaactcgg accactctct 120

tttcttaaag ctactaagt cagccactac tatactcttg gtgtacgtcg atgatatcat 180

actcacaggg aacagtatgc tggaaataca agatatacc accctcttgg attaaacatt 240

caaaataaaa gatcttggtg acttgaagg ctttttgtga ctcgagattg cccgtaccaa 300

tcatggaatc catttatggc aacgaaaata tgccttagac attttgtctg attcagatat 360

gctaggatgc aagccacact cgacacccat ggattatt 398

<210> 17177

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17177

ntatatcatt tcaatgacta cacaagacct tgcctcacat atatttcctt tggaattccc 60

aattcttaga gaaatgggag ttgatcaatg tatgattttc ctactagagt taagggtccc 120

acctttgttt atctttcatc cctcattatc ctcaagttgt ccacaatcat gcttatcttt 180

cacccttttg aggatattgg atgatgaaag acaaacaag gtgggaacaa taattttgga 240

aagaaaatca actatttcta gaatagggaa ttccaaaggg aatgacggga gatgtcttgt 300

gttgtcattg gaatgataaa caattttattg actctctgat ttataatggt atatatccag 360

ttataacacg acgattacaa taactttatg t 391

<210> 17178

<211> 444

<212> DNA

<213> Glycine max

<400> 17178

actatcaata ctacgcttaa cattcaattt cgaggctctc gatataattac tgtacttaat 60

caagcatcca agaaaaaatt tattgtcgtt tgaatttgct cagagattca acattcaatt 120

tcgagcgtct cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt 180



ttgaattggc tccgagcttc aacattcaat ttcgagcgtc tcgatatgtt acgagactca 240  
atcagacatc cgagtaaaaa gctattgtcg tttgaatttg ctgagagatt caacattgaa 300  
tttcgagggc ctgatatct tacgggactc aatcagacat ccgagtgaat agttattgtc 360  
gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata ttacgggact 420  
caatcagaca tccgagtaaa aatt 444

<210> 17179  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17179

gagacagccg aggggagaac agtgcaagc cccccccac agggtgactt aactgaacaa 60  
ncaaannccg gcaagaggac aagaccgatg aaaagcaagg ccaggagaaa aaaccggaga 120  
aaccgaaaag accggaaaaa cggaaaaaga aaaacggggag agcaaggaaa agcgacgaca 180  
aagggacacg aaaaaaaaca cacacaacca caagagaggg aaacgagcaa ggggcgaaac 240  
cgggacacgg gccaacgcga aagagggggc acggaaccgg accaaagacg aacaaaagcg 300  
gggaaagggg cagacgcaga 320

<210> 17180  
<211> 402  
<212> DNA  
<213> Glycine max  
<400> 17180

gagagcttcc gtgttcaatt tcgagtgcct gtatattgat gcgcctgaat cggacatccg 60  
agtgaagagt tatgaccatt tgaatttctc gagagcttcc tatgtttaat tttgagcgtc 120  
tcgatatatt atacgcctga atcgaacctc agtgtaaaaa gttatgacca tttgaatttc 180  
tttagagcat ccgttggtca ttttcgagcg tctctatatg tgatgcacct taatcggacc 240  
tccgtgtgaa aagttatgac catttgaatt tctcgagagc ttccgttggt caatttcgag 300  
cgtctcgaca tattatgcgc ccgaatcgga catccatggg aaaagctatg actatttgaa 360  
tttctcgaga gcttccgtag ttcaatttcg agcgtctgga ca 402

<210> 17181  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17181

tacataatat aaatgtgtgc aattttatta cagggttcaga tgggtgaagta tggacatatatt 60  
 agaatatttt ctttatctgt cactttattg aaatgaccat ttttttaaaa aaaatttgaa 120  
 acaaatacaa catgttcttg ttattaaatt ttgaaaatta ctttccgaca aatattgggc 180  
 ttatgaaaag tactttctag aatccaatat caaaattgaa ttctaaatac tattntccaa 240  
 aacctataat tatggcgtct gaacaaaata tattttacaa tgatatttaa aattgtgtat 300  
 ttcaaacaaa gaataaatct cataacgtac tttcttgaat gacgatatat gagtatttnt 360  
 ttcaataaaa gtggaatgaa t 381

<210> 17182  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 17182

ttatacatag gatacaccta caaaaggaaa cacattaata gttattattt atagcaggtg 60  
 ccttggtctt aaagatgcaa gttttcaaaa ctctaaaga caacaaatct aacatgggat 120  
 cagtgaacaaa ccgtttcaga gatttgatga attatttctt catgctcttg accggcacga 180  
 tgaatgtccc gcataacacg cttgacaaga tcaaaatgaa ctccaccagt gacagataca 240  
 cgaagatcaa gcaaaggctg taattttgtc acttaaggca tagatgcctt ctatgattac 300  
 aatacgagag ccagggactt caacagtcct gtaaggataa cagtaccaa gatatcaaca 360  
 aaaaactaac atatcccagt gccaa 385

<210> 17183  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 17183

tatgataaaa tctgggactt agccttggtg gaagtctcca cagaggccat tgcctccctc 60

ggctagtatt atgatcagcc gttgaggtgc ttcacctttg gggacttcca gctatcacca 120  
 atggtagaag aatttgaaga gatcctatga tgccctcatg gggaaggaaa ccatacctct 180  
 tctcaggggtt ctatccctca ttagctagaa tttccaagat agtccaaatc tcggcgtagg 240  
 aattacacca caggaagcaa gtcgaaaatg gggtggttgg aataccgaga aaatatttgg 300  
 aggcaaaagc aagagtcttg gcaaagtaag gtgagtgggc cccgttcata gatattctcg 360  
 cactgttaat cttcggagga gtcctctttc cgaatgtgga tgggttggtg gacct 415

<210> 17184  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17184

aatgtctctc aatcaagttc ctgtgaaatt attgaaagca taatgggttat gcatttttgt 60  
 tnttatcttg ctcatctct gtatatcatc acaacttcag aggcttggtt ctaggattca 120  
 acttccaaag gcttacttac tctaatatat ctcttattca agttgttctg tgagttttcc 180  
 tgttttagtc tgaagctctg agctttgttt gatagatatg ccaaaggcaa attgcagttt 240  
 ctaatttggt gaaactacaa agattgagtt tagaactgat agaagagtta ccatgtgtat 300  
 caaactagca ttagaaatcg gtatgggtgt ttgctntttg cgttcttaac tcttatacca 360  
 tactagaaac tacaaagaag tgattggatc ttcactacca ttgtggt 407

<210> 17185  
 <211> 82  
 <212> DNA  
 <213> Glycine max

<400> 17185

cccagcgatt atatctacta ctgtgtgatg ttgcatgaat tttgcgactt aaactactag 60  
 ataaggtctc ttgatataaa tc 82

<210> 17186  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 17186

cctagagggg atggaccttt ttgggtcctt tagaggatca ataacaatgc ctataggttg 60  
 taccttacia aagagtatgg agtccacacc acttttaata ttcttgattt aattcctttg 120  
 taggtggagc tgatattgag gaggaagaac caacctattt gaggtcaat tctattcaat 180  
 gtggagggat ga 192

<210> 17187  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 17187

tataattatt attgtttatt gttttgtgtt tcttggcaga tggagtcaat tcaacaaaat 60  
 tataatgatg attccatgga ccattcatct agtagtcctc caggttcgcc tgatataagt 120  
 gacgtagtcg gagccctgcc gttggatcct cgagttggtg agaaatacca ggcggaggtc 180  
 cctggcatca taaaagaatc agaacggctt caacttctta tgaatcctgc tgattcagaa 240  
 gttatgcttg ataactcgct ttcttttagca attggcttgc ccctctcact cacatggata 300  
 ccacatgaag tggacgaatg cggcatgaaa ggaatcttgc cgactttgat ggtacagtca 360  
 atacatatga actagtgaat gaaact 386

<210> 17188  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 17188

cttgtttaat gctatcecca gctctttagt ttattttaact ttgttctcca ctattctctt 60  
 tattttgtga ctggctcaat cacttagggc aattgtagaa gagtttttta tattttaaag 120  
 gtatgatttt tgttacacta cttttttcat acgtgtgacg aattatttga tagcattga 180  
 gtcgcaaact ttgattcact ggtcaacggg gtaaagggtt catttggtgc ttgtaatgta 240  
 ttataattat taataataat gtcttggctg ttcgctttgt tttctcaaat tcacattagt 300  
 attcgcaact taaacaaaac taatgatcct gtcccacaat ggaaatgtaa aacttgtttt 360  
 ttaacttatc tggt 374

<210> 17189  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17189

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ttganagaca acagaggaca gtggggcccca cactacgaag ggcctttcgt tgtaaaaagg 60
gctttctccg gaatggccct ggtgctcacc aacatggatg acgaggagct accttcaccc 120
atgaactccg atgttgtaa gcgatactac gcttaagatc tggggcaatt gaagaagtcg 180
ctgcatgttt gttattttta ttcttatgtg ttcttcttgg tttccccag ggattcctat 240
cctctgtaat tttctcatcg caatctttta aaagacaaga acgtacgatt gaggttctgg 300
tctctgtgtt gtgctttaca atatgtgtag tatttgataa cctgagcctt ttcgctcagt 360
ccatgggatg cccaagngc ttaaatgaaa c 391
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<210> 17190  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17190

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nttgagcaat tcanatgggc ataacttttc actcgtaggc ccgattcatg cgcataatat 60
atcgagacgc tcgaaattga acaatggaag ctcttgagca attcaaattg tcataacttt 120
ttactcagat gtcctattca ggcaaataat atatcgagac gtcctaaaatt gaacaacaga 180
agctcttgag aaattcaaatt ggtcataact tttaactcgg aggtctgatt gaggcgcatt 240
atatatcaag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atgggcataa 300
cttttcactc ggaggtccta ttaaggcgca taatatatcg agatgctcga aattgagcaa 360
tggaagctct tgagcaataa caatggatc aacttntata ctcgagggtc gatngaggcg 420
cataatgtat c 431
```

<210> 17191  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 17191

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 accaagatgt cttcctcgcc tgatacgatg accagatgcc cttccactac gaatttcaac 120  
 ttttggtcga gtgttgaggg aacaactcct actgagtgga tccacgggcg cccaacaga 180  
 cagctgtagg ggggggtaat atccattatt tggaaagtaa cttgacaggt gtgaaggcct 240  
 atctgtactg ggagatcgat ctctccccta acctcttggc ggggtgctgc gaaggcacga 300  
 accaccattg aactccgctt aagtgggaag cattgaatgg taatttctcc acagtgtctt 360  
 ttgcatcacg ttttaactga 379

<210> 17192  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17192

tcgtgaattg caattgngaa gtaaccattt gaatggaact attccttctc agattgggta 60  
 caagtataac ttggagatag ctttaaattt gagctataac catcttcatg gaccattgcc 120  
 ccctcaatta gcaatagggg tggaaatagg ccaggtcggc ctacaagagc ctacgaccta 180  
 acctacataa agtctggcct aaactgggtc gttaaattaa aatgttaagc cgagactttt 240  
 ttaaaagcct attaaattaa atagactatg ctttaagctta ttaaaaagtc tcataagcct 300  
 gataggtcgg cctatatata tgtatatata cttatattaa tttttgcgta ccaatatata 360  
 cttatattat tnttgggtac aattaaattt ttttaaaaac tattgatata cattactgtt 420  
 catacttc 428

<210> 17193  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17193

tgngtttggg tttgagtttt ctgaacctcg agggtttggg tttgggtttg gattaatatt 60  
 aaacaacttg tcttaatgcc aattgaattt gagatagaat tcaacacctg gcttttctga 120  
 cttgtcattt ctgcataata tataagtttg tgacttttgc tgaaatttat canatagtct 180

tgacaatttt tccctgagag taacactgct acgcatatcc taatagaaag aaaccaactt 240  
atgggaggat aaggaaggaa atganactca gcttgcactt agacctagac atgtgtttta 300  
agattgaaca aaagcaaggc agatttctga cagggtttgt cagattacga ttcattcaca 360  
gagcgattct tacatagtga anacaacacg aaatatagta tggataagac naatatattt 420  
aagcatatat ata 433

<210> 17194  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 17194

ttaagatgtg ctcaattgtg taaccacccat atatatatat atatatatgg gtagtagttc 60  
atactcacgt aaccacaagc tgcaataatg tgtgaacatg gatagtgaag cgcaaaatac 120  
ttttcgcatg gacaataatg gccattcaag ttaacagccc acttttgtcc gccacgttgc 180  
gttataagat tgaaagtctc ctctacttca aacctttgcg attggatata atagacgtga 240  
acgatgttgc gaacaagctt gtcttgaatt ttcctaaggc ctttaacaac cttagaacaa 300  
tatacttgtc cttcatttaa atggctttgg gcttggcgac cacgatgaac aaagtacttt 360  
caacacctac tatatgttga tttcaccagc gctattatgg gtatgttgtg acaatcct 418

<210> 17195  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17195

tgctggcctc aaacttgcta ataatatgct gccacactta ccgacattta gagcttacct 60  
ctaaaggaat accaaggtaa gaaaaaggaa attccagttg gctgcaattg agagaagaag 120  
ctgcctccct acaccagccc acagatttac ccaaacaccc aaattggctc ttattatagg 180  
ttatctttta accagaaacc aattcaaagc ttttcaggat acactttaaa actttaacat 240  
tatcattagt ggagtcacca aagaacaagg tgtcatcagc atattgaagt atattaactt 300  
cctcttttnt ctttcccact tggcagctat tgaagagatt cttttctact gctgatctca 360

tcaacccagt aatgccttcc accactatat taaatagcaa aggtgcaagg tggtcacctt 420  
gccttaagcc tctc 434

<210> 17196  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 17196

tcaagctctg ccgatttagg tccgccagtt ttaggatcgt ttgtgtctga taacaggcac 60  
atttgactat cctgctttga tatataagaa gcctacggaa aatggagaga ataagaatgg 120  
ggtagaaacc cgtgttgtga ctgtcattcc tacttgggca aattatccca ctggctcaac 180  
aatatcaata ctcagccaaa atcagcctt cttattacac accaccctac cagccaagaa 240  
caccaatca tgcataaaag ccaccctaa atcaaccaca gaacctgcct gctgcacaat 300  
cgaggccaga caccaccct aa 322

<210> 17197  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 17197

tcagcacaat tactatttct caatctcagt ttataatac caattactaa gtccttttta 60  
actagacaat tgagggtggtg catgtttaca tgtgcatccc tacgaagcaa tagtcaaaaa 120  
tcatcaatct tattttccaa gcaactaagc tcatgatatg atgcatgttc aatattaagc 180  
atgtagatat tacctatttt tctacctatg tgaacaacct cactagtttt tgcttcacaa 240  
atgagacaac aattcttggt gaatgcaatt ttgaagcctt tgtcacatag ctgacttatg 300  
ctcaagagat agtgcttaag ttcatcaaca tatagaacaa ttttttttat tcgagaattg 360  
tgcttaattt ca 372

<210> 17198  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17198



tagctacaca cagccccctct cataactaag ctccacttcct tgagaagctt ccttaagaag 60  
 attcctaaag aagatagagc ttagctacac acacatctct aatagctaag ctcacctcct 120  
 tgagatgaga agctagagct tagctacaca cccctataa tagctaagct caccacata 180  
 acanaatata tgaaaatata aaaaattccc tactacaaag actactcaaa ataccttgaa 240  
 atacaaggca aaaacccctat aataactaaaa tggccaaaat tcaaggccca aacaaaggga 300  
 aaacctattc taatatttac aaagataagc gggctcatat ttagcccatg ggctcgaaat 360  
 ctaccctaag gatcatgaga accctagggc ctttccttag atctc 405

<210> 17199  
 <211> 202  
 <212> DNA  
 <213> Glycine max

<400> 17199

aaggcttgat atgtttctat acatgtaaat ctttcagcct ccaagcataa catttttgaa 60  
 aatgagaaat acttgtgtta catagctcta catcaaatgt taaatgaatg gatctcaagt 120  
 gagcctattc tcattcaatt aggataatct atatgcatgc accctcctgc atgtgcttat 180  
 aaaagatcac tgctagatat ca 202

<210> 17200  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17200

actaagcttg tgacacgccg gagattacgt catcttccgc gcacacaaga tctgtcatac 60  
 tgacatttga gtcacgctga cgggcggaata taccgagtg gttatccgta taaacattct 120  
 tttgctgtct gtaagacaaa aagcctgata gcacgcagag actaacgtcg tcttctgcat 180  
 ccttcgtcaa tcgcggccga caagcccgtt ggcacgcgga gatttacgtc atcttccgcg 240  
 ctcaacaagat ctgtcatact gacatttgag tcacgctgac ggacggaaat acccgagtgg 300  
 ttatccgtat aaacattctt tttgctatct gtaagatgaa aagcctgata gcatgcagag 360  
 actgacatcg tcttctgcac cctttgttcc cccgngaca acaagtcagt tgcacgcaga 420

gatattntat ggtcacccgt

440

<210> 17201  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17201

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acaatgcaca aagcaagata aagtgtcaaa tgaagaattg aagctgcagg attcacgatg 180  
tcggatataa tgtccaggac atcctgcctg aaaatactgg aattgctaaa agcattgaag 240  
ctgcaggatc cacgatgtcg gatacaatgt ccaggacatc ctgcccga aa atactggagt 300  
tgctaaaagc atttgaagtt gcagatccac gatgtcggat acgatgtcca ggacatcttg 360  
cccgaaaata ctggacatat aaatctgtta tatctttaac agattattgt gcagtttagca 420  
agagattaga tgatctatct t 441

<210> 17202  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 17202

agtagaaaca tgggaccaac tcattntatt tcanaaagaa agtcgtatct agtcaaggtc 60  
tgagagacca tacaagtttc ctaacgatnt ctaattatgt gggccattaa gtctatcata 120  
tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt gtccaccatc 180  
gccttggcct tggctaacaa gcgnggaagt tcttgactcc cgttcaaggt aagagcaaac 240  
cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc tctagcctct 300  
ntttctgcgt atacttgagc atactcgtec gcgacatctat gctcgtgggc cgtggctaga 360  
cctaactctt cttggtactt ggcgatgata gctagcatgt tggctctccgt ctcgcataaa 420  
tgctg 425

<210> 17203

<211> 429  
 <212> DNA  
 <213> Glycine max

<400> 17203

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agtcacttca aacattgatt ggatgcataa gtactaaggc tctattaagc tattgttaca 60
acctacgacc gctgaccagg ttcttttatt attattatta ttattattat tattattatt 120
attattatta ttattattat tattattaat tgttttgcct ctggttgaata gaatgaacaa 180
ttacccttta ggaccttgat tcaatgtagc atttggaat tggcctcctt ccttatgtgt 240
atatcttggc ctctctactt ttgtttggaa tttctattaa ttgttttgtg aacttagtat 300
aatttttgtt gagcactgta ctgcatttcc actgtaaaaa atataatcat tatatatttc 360
taaatcaggt tatacataca tctgataaac aattgggttag aattgatatt tttattgatg 420
tcattgtga 429
  
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<210> 17204  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17204

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tctgttctga attcgagcat ctcatatact actggaaaca atcggacatc cgagtaaaaa 60
ggtttgttgt ttgaattttc taagagggtta tgatttcaat tntgagcgtc tcgatataatt 120
acgagactca atcaggcatc cgagtaaaaa gttattgtcg ttagattttt cttagagctt 180
ctatttccga ttatgagcgt ctgatataat tacgagattc attcggacat ccgagtaaaa 240
agttattgtc gtttgatttt gctcanagct tctgttatga atttcgagtg tctcgatata 300
ctacgggaca caatcggaca tccgagtaaa aaggtattga catttgaatt tgctcatagc 360
attcgttgtc aattacgagc gtctagatat attaaaggat tcattcggac atccgagtaa 420
a 421
  
```

<210> 17205  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 17205

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cggcaacgat aaccgtgata atagcgggtga caataataat aacgatggtg gtggcgatga 120  
tggatttgat ggtggtgata atggtggcaa tggcgatagc ggcgacaatg aaggcaacaa 180  
caatgacggt ggtggtggcg gcgacgatgg tggcgacaat ggtaggagtg acaacgccag 240  
tgatggtggt gtgatggctg tcatggtgga gaagcgatga tggtagggaa gatggtgatg 300  
atggtggtgg cgatgatgac agtgatagtg atgggggttg tgagggcaac taccctattc 360  
tgttgctctc taaccaattc accccc 386

<210> 17206

<211> 327

<212> DNA

<213> Glycine max

<400> 17206

acacgacaat atagggaaag gaatcctaca gatgcagcgt atctgacctt ctctgaagag 60  
aagagtcccc tgcttgtttc acatcttcca actgatcttc agacagcact tcattgaggt 120  
cagcagaaga atcgagagca tttctcttac tacctgccat agatgcccct tctaattgatg 180  
cgtccattac agcgtattg ccagaaccag aacagtcatt agaggagtca agcagcttga 240  
tctgccc aaa accaataata attactacaa agacataagc agctacagca caaaaattgg 300  
tgggaactgc acacctctat aacatta 327

<210> 17207

<211> 422

<212> DNA

<213> Glycine max

<400> 17207

tcagacaaaa gcaacacaaa atctatgtat ccaattcccc tcaatttaat ggatgttcaa 60  
ggtttgagaa gtgaaattga taatggggta aatttgaagc aaactctcac ctacacaaag 120  
tctataacat caatttaaac ttgttcaaac tggatttaca cctaaaattc caccgaacca 180  
aaatttgacc cctcaacacc taattttacc ctagaatggc tctttgttca ctgtaggcat 240  
ttgtttctct ctctagcaca gcccaactt tctcataagt cttaaatgac atttcaagct 300

aggattaact cactttaacc tccaaatacc actaaattca catttggcct tccaactttc 360  
 aaaaactcac tccttttcca ctcataccac catatcacac tgtctaacc taggtaactc 420  
 ta 422

<210> 17208  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 17208

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 actcagacta gtaattgact tgattaaggt accagattag tgggttactg gttaaactag 120  
 tgggatcaca gattgaacca tatgaattaa tataatatta aatacataat ttttaaatta 180  
 aaaacatact ataatttatt ttttatcata catataccag aatcttgtgt tgctatagag 240  
 gtaactatat ttttaagcac cctaagggtcc aataactctc aaacacctcc aaaatttctc 300  
 tactattaga catatacgag caacaagtgc actcatagcc aagtgcattg gacaagcaac 360  
 atgtgatgtc aaagctaaat 380

<210> 17209  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 17209

gctgaagctc aaggaatagc ttgaagatag tttttgtaga aactttggct tttacatgcc 60  
 caacttcctt aagtgcatt tgtattggtt gttatcttag gtgctgcac ttagtacact 120  
 tgatatttgt gttgcacat gaatcatcat ggtagtggtg aaaaaaagtt tcttcaaagg 180  
 aaaaaactct atgttttaat cgattacaga agtggcataa tcgattacaa ccagatgtct 240  
 gaatcttaaa gaattgagtc tcgtatcagt ttaatcgatt acagtagtct cataatcttg 300  
 attacattgt tgtttgagac aatgaatgag ttatccaaga atcctttggt ttaatcgatt 360  
 atcaagtgga ttaatcgatt acttctctat g 391

<210> 17210  
 <211> 373  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17210

cgagttcaat aagataattc taatggagtc tctcctcctg ggtnttgaga aaagcttadc 60  
tacgtggaaa tgcagttaat cccatataag ttacgatgca caatgagaaa aataaaatcg 120  
cacatatgct gggtactctt ctatatgaaa aaaaaagata aggattaatt gcaccgctag 180  
atttgcttta agctccattt ctatatcgat acattttata caatcttcta aaccactggt 240  
acttctacaa ccactcttgt atctgtatat tataacaact ttactccctc aactgcttcc 300  
cactttcagg tactcactct attccaaata atgcatgcat taaatgttca tagataaaaa 360  
taagtagcta ggc 373

<210> 17211

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17211

nggtgcacaa tgtcggcatg aagtcactcg tgaagtaggt tctataagag attgtgttta 60  
cagttccttg aacctgattg ttaattttac attgaagaat atgtggggat ttaaaaataa 120  
taacactttg ttaaagctta ttgagaaggt gaattcaata tcaaaatatt agcacatttg 180  
atcttctgca acacttatag actagagatt agagattaat tcacatttcg caatcatggg 240  
tagcaactct tggacagctt gtggattgat agaacaaaag taatgtaaag gcaaaaagaa 300  
cttgactaga aacatatgtg atgaactaag gtctacgcta atactggcaa aaatgtcact 360  
gttggtttttt tttaaataat gctttttataa ccattctaaa aagctgttca agataatgta 420  
ttttgtact agtga 436

<210> 17212

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17212

gtatgataat tttcatgtaa caagctaaat tatattggat aactctgata aaatagtttc 60

aactcaagac aaattgtaga catagctaaa aagtgaaaat gatcatgtan gctgagaatg 120  
atggctctga acttaatagt aggatttatt aacttataga tggaggaaaa gactaggtag 180  
atgctaagaa ctatttcctt ttggatgatc tcctttctaa acttactctt ttttcctcta 240  
ttatgaatgt tgnntttcct ctattcattt agttcattct ttgctttcat aattaatagt 300  
tttttccttt gcggaatttt ctaatatata tgaccgagaa tgaatttttt gcattgacct 360  
attaaaaaat catactacca ttntcagcta ccactattac gcctttgatt ataatgtcat 420

<210> 17213  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17213

ttctgggtggg acatcttcac ttgctttcca atctgacatt caccacagat tctgccttct 60  
tctattttca aattgagaat gcctctaaca gcacctttgt caatgattat cttcatgcct 120  
cttaagtgca gatgtccaaa tctttgatgc catattctga cttcatcttc tttggaggat 180  
agacatgtgg aggagtaact gggttcttga ggtgtccata ggtaacagtt gtcctttggt 240  
ctgctgccct tcattagaac ttcactcttc tcatttgtca ccaagcattc tgactttgtg 300  
aagtttacat tgaatccttc atcacacaac tgactgatgc tgatcaagtt tgcagtcagt 360  
cccttcacca gcagtactnt gtccagacta agaagtccat catgggct 408

<210> 17214  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 17214

agattgagcg agttgatttt agccttagtt tcactctagc tatttgtcaa ttcaattaag 60  
aatgagaaat cccaaagaga aaacatctga ttgatctttc gcttttattt tactaaaagg 120  
tattttctga ttattatatt tatgattgta ccccttattt tgatttccaa cgtgggttacg 180  
gcacgaccga acggtcggaa ttcattttta ccaaatttaa cggatgatac aagtcaaacg 240  
atcgggtggaa atttatttta tttttagatt aagcgaaaaa tgacttaaataaat aaatggctta 300

agcacgtcaa aaggggggtat aaaaagtaaa tggaaacgag aataaaaaata catgaaacac 360  
aatgt 365

<210> 17215  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 17215

atagacaacc gtttgtcact gcgattttta cagtaactac aaagttttta gagtctccac 60  
gaccatggga catttgattt ctacaaatta aacagaccag ttgtctaagt ccatgttcaa 120  
tcattttaat tggtcggatt gatatgctct cttcaagcaa caagagctca aaattttgaa 180  
ctaagcaagt gaaattgtaa tcataagtgg gtcttacagg taccaagggt ggtgttttta 240  
aaactgtagc atgacatata ataggggtcca gtacactaca acacaacatc tcgataggat 300  
aaagagtggc catctgaaaa atcgagctca atatattata gttaaagatg aaaacaccag 360  
ttttttaccc tactacaatt ggtaatatat cttatgttca gcttaca 407

<210> 17216  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 17216

tcaagaaaaa gatggcctca gcaaattcct tatttccaga agggaattct atcaatagac 60  
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatatc tgggaagcca taaaaatagg gccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240  
gagataaatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300  
taataacata tgccttagga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagat 407

<210> 17217  
<211> 412  
<212> DNA  
<213> Glycine max



<400> 17217

tccatcactt ttcacacaga ggtcagattc gggctcataa tatgtcgaga tgctcggaat 60  
tgaaccacgg aagctctcga gtaattcaaa tggtcataac ttttcacaca gatgtccgat 120  
tcggggcgcat aatatgtcga gtagctcgaa attgaacaac ggaagctgtc gagaaattca 180  
aatggtcata atttttcaca cggaggtcag attcggggcac ataatatgtt gagatgctcg 240  
gaattgaacc acgaaagctc tcgagaaatt caaatgggtca taacttttca cacggttgct 300  
cgattcacgc gtatgacata tacagacgct cgaaattgaa catcgaaagc tcttgagaaa 360  
atcagatggg cataactttt cacacggatg ttcgagtaag gtgcatcaca ta 412

<210> 17218

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17218

gtgcggattt agtnttcgcc agtgtaagga ttgttggtggg tctgaaaaaa ggaaaatttg 60  
atcatcctgc tttgacaaat aaaaagcttg gggcaaatag agagaatgag aaggagggag 120  
gaaccattt tgtgattgtt attcctacat ggccaaattt cccaccagct caaaaatgtc 180  
cataactcaac caatatcggc ctttctcatt acccaccatc ttatccacca agaacaccca 240  
atcaaccaca aaggccaccc ctaaatacgc cacaaggccc gcctgccaca cttcaatacc 300  
aaacaccacc cttaacacaa accagaacac caaccaggga aggaattttc caacatagaa 360  
gcctatagaa ttcaccccaa tcttggtgtc aagctaactt gctcccatat gtactc 416

<210> 17219

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17219

tgtaattcag taatacacca ttaatgacag attgattctt atttcttcta tgtacgttat 60  
atgcttggtg taggaacctt tgtacgttat atacatcata ttggatgttt gcgattcctt 120  
gtttgtagca atgctaatac cttatagttt gatgacctgt atcaagctat atttcttaag 180

gaatactatt ttgatcatat cttttgggtt tgggtacaatc cttttttttg tgttgcatgt 240  
tgaagtcaag taactccatt acacttgcaa gcccagagtat aattcattct ttgtgttata 300  
agcttatgtc anactgtctg acgtctccat atgtgtgtac actatgggtca tgttttggtt 360  
tctagaattc atttgggaata tttgttggtg attctgaata agtgatcatt cttga 415

<210> 17220  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 17220

tgtaggatta tggggtaccc atcacatgtg gtactaggtg ggggtcgggc gatggtgcac 60  
aacaagtttt ccacatccac aaatcgcgca taaaccacc atccccgtt gccacctcc 120  
aattgagctc acgtactccc acgtagccca tatcctcatt tctctcaaca ccagggtccc 180  
atcaatcctc ccaagcttcc ccaacatcca ggtaattcaa catccaatca tcatggacta 240  
acaaaatcaa gcaaaacagg gcaaaggcag aaaactctgc ccaaaacaca actcaaaatc 300  
acagcttttc acatacaaat acccgcgtaa catgtccttc gttccaattc gttaaccgtt 360  
ggatcgactc gaatatttta ctgggagtct ctagtacata agcctacat 409

<210> 17221  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 17221

tctgatgttc tgccagcaac tctgataggt actgtctgca aaaaaaaaaa aaaaaaaccc 60  
acccttttct tttatgaatc aaaagcacac aaattcatct aaaacaaatc aaacagacat 120  
ggccaaatcc aaagggtggt tcaccaagag tccaagattg tgtccttttt ctttttttca 180  
gttttgatct aaaaaaaaaa catcacaaga aagagaaacc aactcacctg tccacttctg 240  
gattgctcct aatctgagga gaagcagctc tagcaggaga gaagttggga ttatacaagc 300  
ctgacatggc tcactttttt tctttaagtt ctttttttct ttaggattgg aagaaggaga 360  
agaagaagaa aaacaaacca aaaaaaaaaa agttgaaaa 399

<210> 17222

<211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17222

tagtaagcgt cgttctcgtg ttacttaagg atgttcttag tgtgcaacct aagtgggaga 60  
 ttgagaatct tgtacgtgta gtactcatag aaacgctgaa tgcgaatttc tgggagatgt 120  
 ctggcatata gttttttaag agtatagagt agttacgaaa gttaccagaa gtagttagga 180  
 tgcctagtgt aaaaccttaa gggaatgtaa agtcgtagt aaggcggtgc tctgttgaac 240  
 atagaggggt ttaagagtga gtgttcttgt caaacgtaga tggntacag gattgctgat 300  
 gatacttgta tgattaatga ggtgggatat aacgagttac tgccaatagg ggaccaaata 360  
 tttttgtaca actttttttc ccaaa 385

<210> 17223  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 17223

agcttctttt ggaccttgaa caggcaacta actcctcttt caaaaccatg ctatgtgctc 60  
 gcgactgggc cccttcttac tttcgcaact agagttcact attgctaccc cataaagctc 120  
 cgcgaaattt gttccggcca tactctatct tgcgagccct cttgggtctct tgttcaaggg 180  
 ctcttgcaat aattgcaatt ctcttcccggt aaccgggcac acatccttcc gaacgtgtgt 240  
 agcggccaac ttgaacttct ccttggcaag ttttgccctt cctaactcgc ttttgagagc 300  
 ttggacttct tcgtcctctt tcgggtgcttc aaaaatcttt ttgctgacga ct 352

<210> 17224  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 17224

gcgggacntt ataggatcta atgcgtagtc annacacttt gnaaacnnat ctnntcaacg 60  
 anannnctgg annanagtng tgggtgtgggt ttttatgtag atatntaag aagatatgtg 120

taggtatata agatatagaa aaattattat aatggggtttt gaaagnaanaa gagaatggga 180  
aatattggta ggaaaaattg tgattaattg tatttanaat tggttataaa aaggtaatga 240  
tataaaaatt atttggttaat taaaaaagat aatataatga atagtttaaa ttattttattt 300  
aatagatatg taatagtgtt gtaataagta attattgtat agtataaaaa aatattgata 360  
taaaagaatt taatatattt gaagaagaaa taaataatag tattataata gaaataataa 420  
aatatataat atttatatgta aattaattga aaaag 455

<210> 17225  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 17225

agctttatga cactagtcct tggaaaactt tattttaaca ccaaggcaat taccacggct 60  
gttcttaaatt ccatatttac agaacaaatt tggggcatgg ggctcaatac acatcaaaaa 120  
caggttctaa atatgtatta gactaacaag gcatccaatt agacaaagag agacatagtg 180  
ctctaagaat caaattcgca tgcaaattga aaattatagg attaggaaaa tcttcacctt 240  
ttcccaccta tctttactct tgaaaaccca aaatgattca agctctagct tctcttttcc 300  
ttagagagaa atacatgaag aaaggatgga tgaagattat tcttgcaccc aaatggagat 360  
tctaggagct ntaaaatcca ctct 384

<210> 17226  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 17226

agaataactca cgcttaccga aagtaaatat taagatgtag catttttcat tctaagataa 60  
ttagtttatt taacatttac tcttaatacg acttatacag tgactagggtt ccaattttca 120  
tttttaaaat gaaaatatta ataacttata aaaataacaa gtgcttggtg gaccaatagt 180  
gtttaggaag tataagttac ttgtcatgtc taggtaattg tcctatttta agtttttagtt 240  
aagttttaat tagttaactg ctagaaagtt tttggtgaaa ttttacta ttaaaaagtt 300  
ttctctaattg ttagcattag gcacaaaact tatttgtacg tgtaagcact taaaattgag 360

aaacgtaaag aaaaataatc gagaggatct tttcttctga aattttaaatt tgagacacag 420  
ataaggatta 430

<210> 17227  
<211> 169  
<212> DNA  
<213> Glycine max

<400> 17227  
tatgcatgct cgagcacact ggaggagaac cggcttccaa cctcgaattc tttctatagc 60  
gcgtcgaatt acaactggac gcccgccgca ttacaactga aaaggctgag aataccgtgt 120  
ttgctcacia cttaatcgtc ttgtctcaga gtctcctttt atcacatga 169

<210> 17228  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 17228  
agcttccatt ttcaatttgg agcgtctcga tatattacgg gtgtcaactg gacatccgtg 60  
tataaagtta ttgtcgtttc aatttgctca gagcttcggt tctaaatatt gagcgtctct 120  
aaatattacg ggactcaata agacatctga gtaaaaagtt attgtatggt gaatttgcta 180  
cgagcttccg ttttcaactt ggagcgtctc gatataaac gggactcaat cggacatccg 240  
cgtataaagt tattgtcgat tgaatttgct accagcttca gtattcaatt tggagagtct 300  
cgatatattt cgggactcaa ccagacatcc gagtaaaaag ttatt 345

<210> 17229  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 17229  
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atcgatacgc tccaaattga aaacataagc ccgtagacaa ttcaaaggac aataactttt 120  
tactcgatg tccgatagag tctcgtaata taatgggacc tccaaattga aaatggaagc 180  
tcctatcaaa ttcaaagcgc aataactttt tgctcgatg tacgattgag tcccgtacta 240